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REPORT OF CASE OF TULARAEMIA CONTRACTED FROM A COYOTE (*Canis lesto*) IN NEW MEXICO

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The case of tularaemia here reported, contracted in Lincoln County, N. Mex., seems to be of sufficient general interest to warrant the publication of a note regarding it. It is certainly of sufficient local importance to be called to the attention of the physicians of New Mexico. It more conclusively establishes the coyote as a definite source of infection for this disease. Only one previous case of tularaemia contracted from the coyote has been reported in the literature. That case, occurring in Montana, resulted from the bite of a coyote pup. From the research instituted at that time it was demonstrated that the coyote readily contracts the disease after the ingestion of infected material.¹

That tularaemia is not a new disease in the State of New Mexico is apparent from the 21 cases previously reported, as follows: Tularosa, 2; Alamogordo, 2; Carlsbad and vicinity, 10; Hanover, 1; Dexter, 1; Albuquerque, 1; and locations not mentioned, 4. All of these cases, so far as the writer is aware, have been transmitted from infected rabbits. The series of cases reported by Surg. T. B. H. Anderson, of the United States Public Health Service, in 1924, in coincidence with a fatal epizootic among rabbits in Eddy County, near Carlsbad, was certainly the most interesting and extensive outbreak in the State.

The case reported herein is the first in New Mexico in which the infection has been definitely proved to have been contracted from a coyote. Since this animal is frequently encountered in this State, being continuously hunted and trapped, it must be considered a real source of danger in the transmission of tularaemia to mankind. The physicians and the health authorities should know the rôle that it may play in this connection.

As tularaemia has now been proved to be transmissible from rabbits, coyotes, and possibly quails, it seems probable that cases of this disease occur without being reported. This is especially true in a

¹See Public Health Reports for July 9, 1926.

State like New Mexico where all three of these animals have their natural habitat, and where they are frequently hunted for food, or as an enemy to man. These facts should stimulate physicians to be constantly on the lookout for this disease.

CASE REPORT

E. A., age 36, male, white, laborer, of Mexican origin. Family and past history unimportant.

Present illness: On October 29, 1929, patient cut his left index finger slightly with an ax. He then disposed of the carcass of an adult coyote which he had killed and skinned the evening before. As he wore no gloves he undoubtedly contaminated the cut at that time. There were absolutely no other animal contacts before or afterwards in this case. On October 31, 1929, he complained of pain in the left axilla and felt feverish and had aching body pains. An examination showed that the axillary glands were enlarged and tender. Later the cut on his finger became red, swollen, and painful. In a few days an inflamed papule developed which discharged pus and formed an ulcerated area. The axillary glands suppurred and upon incision yielded purulent matter. The blood serum collected on November 19, 1929, and tested at the Hygienic Laboratory agglutinated the *Bacterium tularensis* in a dilution of 1 : 1,280, thus confirming the diagnosis of tularaemia. The Wassermann test was negative. The disease furthermore ran the typical febrile course of the ulcero-glandular type of two months' duration. For the greater part of this time the patient was confined to bed. At the time of this report (January 8, 1930) he has apparently made a good recovery, but states that he does not feel as strong or as well as before he became sick.

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THE WEIL-FELIX REACTION IN ENDEMIC TYPHUS FEVER AND IN ROCKY MOUNTAIN SPOTTED FEVER

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Some years ago Kelly (1) tested the sera of eight patients with Rocky Mountain spotted fever against a strain of *proteus X*₁₉ for the Weil-Felix reaction with negative results. Owing to the limited observations on which this conclusion was based, it was thought advisable to repeat the work with a larger series of cases and with sera taken late in the disease, using several different strains of *proteus*.

In 1928 a preliminary communication by Kerlee and Spencer (2) reported that the sera from some patients with Rocky Mountain spotted fever showed a power to agglutinate the *proteus* group of

organisms, particularly the so-called specific "X strains" of Weil and Felix, which was far in excess of that encountered in controls and seemed to be definitely associated with the course of the disease, resembling closely the phenomenon thought to be specific for typhus fever. They further showed that the same type of agglutinins appeared in the blood of rabbits inoculated with the virus of Rocky Mountain spotted fever while the results with guinea pigs were invariably negative. These findings again were in accord with experience with the same species of animals experimentally inoculated with typhus virus.

While this work was in progress two publications appeared in foreign literature bearing upon the Weil-Felix reaction in animals inoculated with Rocky Mountain spotted fever virus. Kuczynski (3) had noted that the sera of rabbits injected with blood or brain virus of Rocky Mountain spotted fever did not as a rule contain agglutinins for *proteus* X₁₉ strains. In one instance, however, a low titer was obtained against an X₂ strain. On the other hand, he made the statement that white rats regularly gave a high titer Weil-Felix reaction with the *proteus* X₁₉ after inoculation with Rocky Mountain spotted fever virus. Positive reactions were also obtained in dogs and in a monkey. These experiments are not recorded in detail in his paper.

Munter (4) found the Weil-Felix reaction with *proteus* X₁₉ to be positive in rabbits inoculated with Rocky Mountain spotted fever virus, the serum titer against X₁₉ O type (specific typhus agglutinins) being slightly higher than that for the X₁₉ H type (*proteus* group agglutinins). Munter treated rabbits first with the virus of Rocky Mountain spotted fever and subsequently treated the same animals with typhus fever virus. This procedure was also reversed. From observations upon the changes in the titer of the serum of animals so treated he concluded that the mechanism involved in the production of agglutinins was not precisely identical in the two diseases. Sera from human cases were, of course, not available to the European investigators.

Owing to the fact that the Weil-Felix reaction has been regarded as highly specific for typhus and that this has been used by some writers as an argument in favor of a possible etiological relationship of the *proteus* bacillus to the disease, further studies were undertaken. Sera from 40 human cases of Rocky Mountain spotted fever were set up against the H and O variants of three strains of *proteus* X₁₉ and against two strains of *proteus vulgaris* and comparison was made with sera from 16 cases of endemic typhus occurring in the southeastern United States and from one case of typhus occurring in Adelaide, Australia,¹ with a view to elucidating any differences that might exist.

¹ We are deeply indebted to Dr. A. Felix for his kindness in sending us this serum.

MATERIALS AND TECHNIQUE

The X_{19} and the X_2 strains O and H were obtained from Dr. A. Felix, of the Lister Institute. We are indebted to Doctor Kingsbury, of the Institute of Medical Research, Kuala Lumpur, for the Kingsbury strain of X_{19} which Fletcher and Lesslar (5) found to give such interesting results with the typhuslike diseases encountered in the Federated Malay States. The two strains of *proteus vulgaris* came from the American Type Collection, No. 93 and No. 221.

The dissociated strains were checked by plating out on the surface of dry agar plates to ascertain the presence of discrete O type colonies and the spreading H type colonies from the same inoculum that was used to seed agar for the production of a large amount of antigen. In our experience the X_2 , O type, and the Kingsbury O type (KO), have remained constantly free from H individuals. On the other hand, upon several occasions we have noted that the X_{19} O type tended to revert and to show H colonies. One must admit therefore that in any suspension of organisms that are produced for agglutination purposes some H antigen may be present, even though in small and perhaps insignificant quantities.

No preservative was added to the antigens. They were kept free from contamination stored in a refrigerator at a temperature of approximately 4° C. They were carefully checked every few days for loss of antigenic power against a known positive serum. In our experience, however, formalinized suspensions (6) can be used with equal facility and accuracy provided the concentration of the preservative be kept at a minimum. In order to accomplish this, it is our custom to add 0.1 to 0.2 per cent neutral formaldehyde (U. S. P. 37 per cent) to heavy saline emulsions of the organism. When needed this emulsion is diluted 1:10 to 1:20 in order to obtain the proper turbidity before use in the reaction.

Suspensions were standardized to a turbidity of 500 according to the silica method recommended in "Standard Methods of Water Analysis," 1925. The tests were carried out in tubes by the macroscopic method with a total volume of 1 c. c., incubated at 37° C. for two hours and read after standing overnight in the ice box. The titer of a serum with a given antigen is here recorded as the highest dilution of that serum showing a 50 per cent agglutination or more, read without the aid of a magnifying lens.

RESULTS

In Table 1 are shown the results of titrating sera from 40 cases of Rocky Mountain spotted fever, in various stages of the disease, with antigens prepared from the several strains of *proteus bacilli*. In the first group of 10 cases, in which the day of the disease on which the specimen was taken was not recorded, one (No. 6) showed definite

agglutination of *proteus* X₁₉ (H and O) up to a dilution of 1:1,280, and of X₂ H up to 1:320, with lower titers for X₂ O, the Kingsbury and *proteus vulgaris* strains. Another serum (No. 10) showed only a doubtful (1:80) reaction with X₁₉ and Kingsbury (KO and KH), but a strongly positive one with X₂ H (1:1,280), X₂ O (1:640) and *proteus vulgaris* No. 526 (1:640).

TABLE 1.—Agglutination of *proteus* strains by sera from 40 cases of Rocky Mountain spotted fever

| Group | Serum No. | Day of illness | X ₁₉ O | Agglutinin titer with <i>proteus</i> strains | | | | | | |
|-------|-----------|--------------------|-------------------|--|-----|-----|------------------|------------------|-----------------|------------------|
| | | | | X ₁₉ H | KO | KH | X ₂ O | X ₂ H | Vulgaris No. 93 | Vulgaris No. 221 |
| I. | 1 | Not known | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | do | 0 | 0 | 20 | 20 | 0 | 0 | 0 | 0 |
| | 3 | do | 20 | 40 | 0 | 20 | 20 | 20 | 0 | 0 |
| | 4 | do | 20 | 40 | 20 | 0 | 0 | 0 | 0 | 0 |
| | 5 | do | 160 | 160 | 20 | 20 | 20 | 20 | 0 | 40 |
| | 6 | do | 1,280 | 1,280 | 80 | 80 | 160 | 320 | 0 | 160 |
| | 7 | do | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | do | 40 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10 | do | 80 | 80 | 80 | 80 | 640 | 1,280 | 0 | 640 |
| II. | 11 | Second day | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12 | Third day | 160 | 160 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 13 | do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | Fifth day | 2,560 | 2,560 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 15 | Sixth day | 0 | 0 | 20 | 20 | 0 | 0 | 0 | 0 |
| | 16 | do | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 20 |
| | 17 | do | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 18 | Seventh day | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| III. | 19 | Eighth day | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 20 | Ninth day | 40 | 40 | 0 | 20 | 40 | 40 | 20 | 0 |
| | 21 | do | 0 | 0 | 20 | 20 | 160 | 160 | 0 | 0 |
| | 22 | Eleventh day | 0 | 0 | 0 | 0 | 40 | 40 | 0 | 0 |
| | 23 | Fourteenth day | 40 | 40 | 160 | 160 | 0 | 0 | 0 | 0 |
| | 24 | Fifteenth day | 20 | 20 | 0 | 0 | 160 | 320 | 0 | 0 |
| | 25 | do | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IV. | 26 | do | 40 | 40 | 0 | 0 | 80 | 160 | 0 | 0 |
| | 27 | Seventeenth day | 320 | 320 | 40 | 0 | 80 | 80 | 0 | 0 |
| | 28 | Twentieth day | 640 | 640 | 0 | 0 | 0 | 0 | 0 | 80 |
| | 29 | Twenty-first day | 320 | 320 | 0 | 0 | 640 | 640 | 20 | 20 |
| | 30 | Twenty-third day | 2,560 | 1,280 | 0 | 40 | 320 | 640 | 0 | 40 |
| | 31 | do | 160 | 160 | 40 | 0 | 320 | 640 | 20 | 80 |
| | 32 | do | 1,280 | 1,280 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 33 | Twenty-eighth day | 80 | 40 | 40 | 640 | 640 | 640 | 20 | 80 |
| | 34 | Twenty-ninth day | 0 | 0 | 0 | 160 | 320 | 0 | 0 | 0 |
| | 35 | Thirty-first day | 320 | 320 | 40 | 40 | 640 | 640 | 0 | 0 |
| | 36 | Thirty-third day | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 37 | do | 320 | 640 | 0 | 0 | 160 | 320 | 0 | 0 |
| | 38 | Thirty-fifth day | 40 | 40 | 40 | 40 | 0 | 0 | 0 | 20 |
| | 39 | Sixty-sixth day | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 40 | Twenty-fourth year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

In the group of eight cases where the serum was taken during the first week of the disease, one (No. 14) taken on the fifth day showed agglutination with *proteus* X₁₉ O and H up to 1:2,560, and one (No. 12) up to 1:160, with negligible titers against the other antigens.

In the eight cases where serum was taken during the second week, none showed a titer with X₁₉ which would be considered significant, but one (No. 23) agglutinated Kingsbury (O and H) up to 1:160, one (No. 21) agglutinated X₂ (O and H) up to 1:160, and one (No. 24) agglutinated X₂ O to 1:160 and X₂ H to 1:320, and No. 26 agglutinated X₂ O 1:80 and X₂ H 1:160.

Seven of the remaining 14 sera, taken during convalescence, showed a high titer agglutination with X_{19} , eight with X_2 , and one up to 1:160 with Kingsbury H. None had titers higher than 1:80 with the *proteus vulgaris* strains. It will be noted that the titer for X_2 sometimes exceeded that for X_{19} , although the latter strain is uniformly more sensitive to typhus sera, and in at least one instance (No. 34) the X_2 agglutination was positive when the test with X_{19} was entirely negative.

In Table 2 are shown the results of testing positive sera from cases of endemic typhus in the southeastern United States against the same *proteus* antigens used for the spotted fever sera. All of these typhus sera were selected originally on the basis of having agglutinated *proteus* X_{19} . They are not, therefore, a true random sample of sera taken in various stages of the disease as were the Rocky Mountain spotted fever sera. At the same time, it is clearly evident that in spite of high titers against *proteus* X_{19} , these sera show very little tendency to clump the other antigens. It is perhaps noteworthy, on the other hand, that the single serum from the endemic typhus of Australia did agglutinate the X_2 organisms, though in much lower titer than X_{19} .

TABLE 2.—*Agglutination titer of 16 sera from human cases of endemic typhus fever against representative proteus strains*

| Serum No. | Agglutination titer with proteus strains | | | | | | | |
|-----------------|--|------------|----|----|---------|---------|--------------------|---------------------|
| | X_{19} O | X_{19} H | KO | KH | X_2 O | X_2 H | Vulgaris No. 93 | Vulgaris No. 221 |
| 1 | 2,560 | 2,560 | 20 | 20 | 20 | 20 | 0 | 0 |
| 2 | 1,280 | 1,280 | 20 | 0 | 20 | 40 | 0 | 0 |
| 3 | 1,280 | 2,560 | 80 | 80 | 40 | 80 | 0 | 20 |
| 4 | 160 | 160 | 20 | 0 | 0 | 0 | 0 | 0 |
| 5 | 1,280 | 1,280 | 20 | 0 | 0 | 0 | 0 | 0 |
| 6 | 320 | 640 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 1,280 | 1,280 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 1,280 | 1,280 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 2,560 | 2,560 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 2,560 | 2,560 | 20 | 0 | 0 | 20 | 0 | 0 |
| 11 | 2,560 | 5,120 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 320 | 640 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 640 | 640 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 640 | 1,280 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 2,560 | 5,120 | 0 | 0 | 20 | 40 | 0 | 0 |
| 16 | 1,280 | 1,280 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 ¹ | 5,120 | 320 | 0 | 0 | 80 | 160 | 0 | 0 |

¹ Case of typhus from Adelaide, Australia.

DISCUSSION

Additional evidence is brought by this series of observations as to the frequency with which a positive Weil-Felix reaction is encountered in the sera of human cases of Rocky Mountain spotted fever. Possibly it is not so constant a phenomenon in Rocky Mountain spotted fever as it appears to be in typhus, but it undoubtedly

occurs in a majority of the cases examined late in the disease or during convalescence. In neither Rocky Mountain spotted fever nor in endemic typhus was the titer consistently higher with the O type antigen of X_{19} which, according to the work of Felix, is specific for typhus, than with the H type. The agglutinin absorption of the two types of antigens was not studied.

Granting the fact that a positive Weil-Felix reaction occurs in Rocky Mountain spotted fever, it is evident from the observations here recorded, as it was in Munter's experiments, that the mechanism involved is not exactly identical with that involved in typhus. Spotted fever virus produces agglutinins of broader affinities and of greater variability than those produced by typhus virus. The sera from cases of the former are apparently much more likely to react with the X_2 and Kingsbury strains and even with *proteus vulgaris* than are the sera from cases of endemic typhus. There is a qualitative difference in the character of the agglutinins. One can not say that the X_{19} is uniformly the more sensitive strain in Rocky Mountain spotted fever. It is evident that in routine work for the serological diagnosis of this latter disease the several strains of *proteus* bacilli should be used. On the contrary, our experience in this country with endemic typhus has led us to believe that only the X_{19} need be considered.

The fact that the Weil-Felix reaction may be positive in both diseases, even though qualitatively different, is extremely interesting. Although the two diseases are clinically similar in human beings, Rocky Mountain spotted fever and typhus are immunologically distinct. Neither virus affords any measurable degree of protection to recovered animals against a subsequent inoculation of the other. It must, therefore, be assumed that the etiologic agents are biologically distinct, even though closely related. This would, at the same time, suggest that typhus fever and Rocky Mountain spotted fever are more closely related than are typhus and that group of so-called typhuslike fevers which are characterized by a primary ulcer (*tâche noire*) at the point of entrance of the virus from a mite (or tick?) bite—the *Tsutsugamushi* disease (Japanese flood fever, *kedani* fever of Japan and the Federated Malay States (7), the pseudo-typhus of Deli (8, 9), the "fièvre exanthématique," of the Mediterranean area (10). Studies of this group of fevers have indicated that the Weil-Felix is nearly always negative and animals experimentally inoculated show manifestations different from those of typhus.

CONCLUSION

The Weil-Felix reaction is positive in a large proportion of cases of Rocky Mountain spotted fever. The mechanism of this reaction although similar is not exactly identical with that occurring in typhus fever. There is a qualitative difference.

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COURT DECISION RELATING TO PUBLIC HEALTH

City license not required of person holding State license for manufacture and sale of soft drinks at wholesale.—(Wisconsin Supreme Court; *E. L. Husting Co. v. City of Milwaukee et al.*, 228 N. W. 502; decided Jan. 7, 1930.) The plaintiff was engaged in the manufacture, bottling, and sale of soda-water beverages at wholesale in the city of Milwaukee, holding a license issued by the State dairy and food commissioner pursuant to statute. The city of Milwaukee passed an ordinance which required, among other things, that a manufacturer of soda-water beverages procure a license from the city, and the plaintiff brought an action to restrain the enforcement of such ordinance.

Chapter 96 of the 1929 laws provided that no person, firm, or corporation that possessed a license from the dairy and food commissioner, such as held by plaintiff, should be required to procure a license from the municipality under the State prohibition act then in force. The prohibition act gave municipal corporations the power to license those

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who manufactured and dealt in nonintoxicating liquor. Chapter 129 of the 1929 laws repealed the prohibition law but gave to municipalities exactly the same power to license manufacturers and vendors of nonintoxicating liquor that was conferred by the prohibition act. The supreme court decided that the passage of chapter 129 did not evidence a legislative intent to change the exemption contained in chapter 96 and affirmed orders of the lower court restraining the enforcement of the ordinance and overruling the defendants' demurrer to the complaint.

DEATHS DURING WEEK ENDED FEBRUARY 15, 1930

Summary of information received by telegraph from industrial insurance companies for the week ended February 15, 1930, and corresponding week of 1929. (From the Weekly Health Index, February 19, 1930, issued by the Bureau of the Census, Department of Commerce)

| | Week ended Feb. 15, 1930 | Corresponding week, 1929 |
|---|-----------------------------|-----------------------------|
| Policies in force | 75,472,681 | 73,242,495 |
| Number of death claims | 13,971 | 16,424 |
| Death claims per 1,000 policies in force, annual rate | 9.7 | 11.7 |

Deaths from all causes in certain large cities of the United States during the week ended February 15, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index February 19, 1930, issued by the Bureau of the Census, Department of Commerce)

| City | Week ended Feb. 15, 1930 | | Annual death rate per 1,000, corre- sponding week, 1929 | Deaths under 1 year | | Infant mortality rate, week ended Feb. 15, 1930 ² |
|-------------------|-----------------------------|----------------------------|--|-----------------------------------|-------------------------------------|---|
| | Total deaths | Death rate ¹ | | Week ended Feb. 15, 1930 | Corre- sponding week, 1929 | |
| Total (64 cities) | 8,013 | 14.1 | 15.3 | 766 | 873 | 3.67 |
| Akron | 47 | | | 8 | 2 | 73 |
| Albany | 43 | 18.6 | 19.5 | 8 | 2 | 175 |
| Atlanta | 109 | 22.3 | 20.0 | 14 | 10 | 148 |
| White | 54 | | | 7 | 6 | 222 |
| Colored | 55 | (*) | (*) | 7 | 4 | 111 |
| Baltimore | 238 | 14.9 | 17.9 | 14 | 23 | 48 |
| White | 188 | | | 10 | 15 | 43 |
| Colored | 50 | (*) | (*) | 4 | 8 | 65 |
| Birmingham | 67 | 15.7 | 19.9 | 7 | 11 | 65 |
| White | 28 | | | 2 | 1 | 31 |
| Colored | 39 | (*) | (*) | 5 | 10 | 118 |
| Boston | 252 | 16.4 | 19.9 | 35 | 30 | 99 |
| Bridgeport | 42 | | | 5 | 7 | 85 |
| Buffalo | 142 | 13.3 | 14.7 | 20 | 15 | 89 |
| Cambridge | 37 | 15.3 | 14.1 | 6 | 1 | 111 |
| Camden | 29 | 11.2 | 15.0 | 7 | 1 | 127 |
| Canton | 22 | 9.8 | 12.9 | 4 | 2 | 99 |
| Chicago | 771 | 12.7 | 13.6 | 66 | 83 | 58 |
| Cincinnati | 127 | | | 4 | 15 | 24 |
| Cleveland | 216 | 11.1 | 12.6 | 17 | 29 | 51 |
| Columbus | 70 | 12.2 | 17.6 | 8 | 7 | 78 |
| Dallas | 65 | 15.6 | 19.4 | 9 | 10 | |
| White | 53 | | | 7 | 7 | |
| Colored | 12 | (*) | (*) | 2 | 3 | |
| Dayton | 43 | 12.2 | 14.1 | 2 | 7 | 39 |
| Denver | 77 | 13.6 | 18.4 | 7 | 11 | 73 |
| Des Moines | 31 | 10.6 | 12.4 | 0 | 3 | 0 |
| Detroit | 308 | 11.6 | 13.8 | 55 | 62 | 85 |
| Duluth | 20 | 8.9 | 10.7 | 3 | 1 | 81 |

Footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended February 15, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index, February 19, 1930, issued by the Bureau of the Census, Department of Commerce)—Continued

| City | Week ended Feb. 15, 1930 | | Annual death rate per 1,000, corresponding week, 1929 | Deaths under 1 year | | Infant mortality rate, week ended Feb. 15, 1930 ² |
|-----------------------------|--------------------------|-------------------------|---|--------------------------|--------------------------|--|
| | Total deaths | Death rate ¹ | | Week ended Feb. 15, 1930 | Corresponding week, 1929 | |
| El Paso | 48 | 21.2 | 29.2 | 13 | 21 | |
| Erie | 28 | | | 3 | 4 | 64 |
| Fall River ⁴ | 30 | 11.6 | 12.0 | 4 | 3 | 62 |
| Flint | 32 | 11.2 | 10.5 | 8 | 6 | 93 |
| Fort Worth | 37 | 11.3 | 11.3 | 4 | 1 | |
| White | 33 | | | 4 | 1 | |
| Colored | 4 | (i) | (i) | 0 | 0 | |
| Grand Rapids | 44 | 14.0 | 6.7 | 4 | 3 | 61 |
| Houston | 72 | | | 6 | 5 | |
| White | 44 | | | 3 | 4 | |
| Colored | 28 | (i) | (i) | 3 | 1 | |
| Indianapolis | 122 | 16.6 | 16.8 | 1 | 13 | 7 |
| White | 105 | | | 1 | 10 | 9 |
| Colored | 17 | (i) | (i) | 0 | 3 | 0 |
| Jersey City | 90 | 15.9 | 15.9 | 13 | 17 | 113 |
| Kansas City, Kans. | 27 | 11.9 | 18.1 | 3 | 3 | 71 |
| White | 17 | | | 3 | 3 | 80 |
| Colored | 10 | (i) | (i) | 0 | 0 | 0 |
| Kansas City, Mo. | 111 | 14.8 | 14.8 | 13 | 8 | 101 |
| Knoxville | 39 | 19.3 | 7.9 | 4 | 2 | 94 |
| White | 35 | | | 4 | 2 | 104 |
| Colored | 4 | (i) | (i) | 0 | 0 | 0 |
| Los Angeles | 265 | | | 19 | 19 | 58 |
| Louisville | 99 | 15.7 | 16.8 | 6 | 11 | 52 |
| White | 77 | | | 5 | 10 | 49 |
| Colored | 22 | (i) | (i) | 1 | 1 | 72 |
| Lowell | 29 | | | 3 | 1 | 71 |
| Lynn | 29 | 14.3 | 12.9 | 3 | 2 | 76 |
| Memphis | 101 | 27.7 | 22.8 | 5 | 12 | 60 |
| White | 50 | | | 2 | 7 | 37 |
| Colored | 51 | (i) | (i) | 3 | 5 | 101 |
| Milwaukee | 120 | 11.5 | 12.6 | 19 | 21 | 96 |
| Minneapolis | 91 | 10.4 | 12.8 | 9 | 8 | 58 |
| Nashville | 46 | 17.2 | 24.3 | 4 | 6 | 62 |
| White | 31 | | | 2 | 1 | 41 |
| Colored | 15 | (i) | (i) | 2 | 5 | 127 |
| New Bedford | 22 | | | 2 | 3 | 51 |
| New Haven | 39 | 10.8 | 14.7 | 2 | 4 | 39 |
| New Orleans | 181 | 22.0 | 20.6 | 20 | 11 | 116 |
| White | 103 | | | 5 | 5 | 44 |
| Colored | 78 | (i) | (i) | 15 | 6 | 232 |
| New York | 1,606 | 13.9 | 15.8 | 146 | 185 | 61 |
| Bronx Borough | 195 | 10.7 | 13.4 | 13 | 23 | 31 |
| Brooklyn Borough | 550 | 12.4 | 14.2 | 56 | 69 | 60 |
| Manhattan Borough | 631 | 18.8 | 21.2 | 59 | 69 | 97 |
| Queens Borough | 178 | 10.9 | 10.8 | 13 | 19 | 38 |
| Richmond Borough | 52 | 18.0 | 22.1 | 5 | 5 | 93 |
| Newark, N. J. | 140 | 15.4 | 11.9 | 12 | 6 | 63 |
| Oakland | 59 | 11.2 | 14.8 | 4 | 7 | 48 |
| Oklahoma City | 45 | | | 3 | 5 | 59 |
| Omaha | 59 | 13.8 | 15.0 | 1 | 4 | 11 |
| Paterson | 41 | 14.8 | 13.3 | 2 | 3 | 35 |
| Philadelphia | 553 | 14.0 | 14.1 | 61 | 58 | 90 |
| Pittsburgh | 217 | 16.8 | 14.0 | 22 | 24 | 81 |
| Providence | 73 | 13.3 | 17.3 | 4 | 8 | 37 |
| Richmond | 60 | 16.1 | 16.6 | 2 | 4 | 30 |
| White | 37 | | | 1 | 2 | 22 |
| Colored | 23 | (i) | (i) | 1 | 1 | 44 |
| Rochester | 85 | 13.5 | 14.0 | 4 | 7 | 35 |
| St. Louis | 265 | 16.3 | 16.4 | 11 | 18 | 36 |
| St. Paul | 56 | | | 3 | 4 | 30 |
| Salt Lake City ⁴ | 38 | 14.4 | 15.5 | 3 | 8 | 47 |
| San Antonio | 79 | 18.9 | 20.8 | 7 | 20 | |
| San Diego | 49 | | | 2 | 3 | 42 |
| San Francisco | 156 | 13.9 | 15.3 | 4 | 8 | 27 |
| Schenectady | 17 | 9.5 | 15.6 | 0 | 5 | 0 |
| Seattle | 70 | 9.5 | 12.1 | 4 | 5 | 40 |
| Somerville | 29 | 14.7 | 13.2 | 2 | 1 | 65 |
| Spokane | 35 | 16.7 | 16.7 | 2 | 1 | 52 |
| Springfield, Mass. | 44 | 15.3 | 12.2 | 4 | 5 | 63 |

Footnotes at end of table.

February 28, 1930.

Deaths from all causes in certain large cities of the United States during the week ended February 15, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index, February 19, 1930, issued by the Bureau of the Census, Department of Commerce)—Continued

| City | Week ended Feb. 15, 1930 | | Annual death rate per 1,000, corresponding week, 1929 | Deaths under 1 year | | Infant mortality rate, week ended Feb. 15, 1930 ² |
|-------------------|--------------------------|-------------------------|---|--------------------------|--------------------------|--|
| | Total deaths | Death rate ¹ | | Week ended Feb. 15, 1930 | Corresponding week, 1929 | |
| Syracuse | 51 | 13.3 | 14.7 | 5 | 6 | 62 |
| Toledo | 84 | 14.0 | 16.1 | 5 | 12 | 46 |
| Trenton | 54 | 20.3 | 15.8 | 9 | 2 | 168 |
| Utica | 21 | 10.5 | 21.5 | 4 | 2 | 114 |
| Washington, D. C. | 149 | 14.1 | 17.5 | 11 | 15 | 64 |
| White | 91 | | | 5 | 7 | 43 |
| Colored | 58 | (9) | (9) | 6 | 8 | 106 |
| Waterbury | 23 | | | 3 | 5 | 77 |
| Wilmington, Del. | 48 | 19.5 | 13.8 | 4 | 4 | 90 |
| Worcester | 75 | 19.8 | 18.7 | 10 | 9 | 130 |
| Yonkers | 30 | 12.9 | 6.4 | 3 | 2 | 72 |
| Youngstown | 40 | 12.0 | 9.3 | 3 | 3 | 47 |

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 71 cities.

⁴ Deaths for week ended Friday.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended February 15, 1930, and February 16, 1929

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended February 15, 1930, and February 16, 1929

| Division and State | Diphtheria | | Influenza | | Measles | | Meningococcus meningitis | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 |
| New England States: | | | | | | | | |
| Maine | 2 | 2 | 12 | 188 | 46 | 353 | 0 | 0 |
| New Hampshire | | 1 | 4 | 65 | 22 | 29 | 0 | 0 |
| Vermont | 3 | | | 19 | 7 | 18 | 0 | 0 |
| Massachusetts | 71 | 96 | 15 | 405 | 510 | 378 | 5 | 1 |
| Rhode Island | 15 | 6 | | 33 | 3 | 74 | 0 | 0 |
| Connecticut | 25 | 30 | 6 | 373 | 20 | 328 | 0 | 2 |
| Middle Atlantic States: | | | | | | | | |
| New York | 126 | 244 | 142 | 1,243 | 557 | 817 | 18 | 45 |
| New Jersey | 117 | 118 | 22 | 71 | 362 | 226 | 4 | 5 |
| Pennsylvania | 158 | 158 | | | 783 | 2,012 | 8 | 8 |
| East North Central States: | | | | | | | | |
| Ohio | 78 | 104 | 36 | 367 | 760 | 1,311 | 11 | 7 |
| Indiana | 34 | 25 | | 119 | 65 | 358 | 14 | 0 |
| Illinois | 158 | 139 | 44 | 137 | 627 | 692 | 11 | 13 |
| Michigan | 66 | 101 | 7 | 25 | 440 | 413 | 32 | 26 |
| Wisconsin | 31 | 16 | 66 | 139 | 1,184 | 460 | 8 | 3 |
| West North Central States: | | | | | | | | |
| Minnesota | 11 | 27 | 4 | 6 | 161 | 285 | 4 | 3 |
| Iowa | 11 | 8 | 1 | | 496 | | 2 | 5 |
| Missouri | 37 | 51 | 38 | 113 | 76 | 284 | 21 | 18 |
| North Dakota | 6 | 9 | | 50 | 46 | 18 | 1 | 8 |
| South Dakota | 3 | 4 | | 2 | 119 | 47 | 2 | 0 |
| Nebraska | 19 | 25 | 23 | 63 | 723 | 24 | 3 | 3 |
| Kansas | 19 | 15 | 5 | 34 | 342 | 65 | 6 | 3 |
| South Atlantic States: | | | | | | | | |
| Delaware | | | | 3 | 6 | 23 | 0 | 0 |
| Maryland ¹ | 25 | 31 | 64 | 649 | 11 | 127 | 0 | 1 |
| District of Columbia | 18 | 10 | 1 | 25 | 9 | 3 | 0 | 0 |
| Virginia | | | | | | | 1 | |
| West Virginia | 12 | 15 | 12 | 211 | 99 | 130 | 4 | 1 |
| North Carolina | 36 | 28 | 37 | | 15 | 98 | 0 | 0 |
| South Carolina | 16 | 11 | 1,061 | 922 | | 2 | 8 | 0 |
| Georgia | 16 | 7 | 234 | 203 | 335 | 53 | 16 | 0 |
| Florida | 13 | 9 | 3 | 39 | 102 | 10 | 3 | 1 |

¹ New York City only.

² Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended February 15, 1930, and February 16, 1929—Continued

| Division and State | Diphtheria | | Influenza | | Measles | | Meningococcus meningitis | |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 |
| East South Central States: | | | | | | | | |
| Kentucky | 9 | | 30 | 132 | 28 | 1 | 0 | |
| Tennessee | 3 | 17 | 163 | 1,629 | 202 | 4 | 21 | 0 |
| Alabama | 43 | 24 | 176 | 956 | 108 | 160 | 3 | 4 |
| Mississippi | 21 | 9 | | | | | 26 | 2 |
| West South Central States: | | | | | | | | |
| Arkansas | 5 | 23 | 206 | 1,175 | 5 | 88 | 4 | 0 |
| Louisiana | 16 | 24 | 27 | 78 | 90 | 42 | 5 | 10 |
| Oklahoma | 18 | 29 | 128 | 712 | 84 | 5 | 4 | 2 |
| Texas | 41 | 36 | 55 | 368 | 120 | 51 | 2 | 6 |
| Mountain States: | | | | | | | | |
| Montana | 1 | 3 | 4 | | 21 | 133 | 1 | 2 |
| Idaho | 2 | 1 | 4 | | 81 | 13 | 2 | 9 |
| Wyoming | 1 | 4 | | | 33 | 30 | 0 | 0 |
| Colorado | 8 | 15 | | 27 | 65 | 8 | 0 | 7 |
| New Mexico | 6 | 5 | | 1 | 56 | 9 | 3 | 1 |
| Arizona | 7 | 7 | 12 | | 5 | 27 | 5 | 19 |
| Utah | 2 | | 1 | 4 | 232 | | 3 | 16 |
| Pacific States: | | | | | | | | |
| Washington | 8 | 5 | 4 | 42 | 200 | 96 | 7 | 2 |
| Oregon | 9 | 6 | 106 | 94 | 12 | 140 | 2 | 6 |
| California | 70 | 61 | 72 | 244 | 954 | 58 | 9 | 16 |

| Division and State | Poliomyelitis | | Scarlet fever | | Smallpox | | Typhoid fever | |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 |
| New England States: | | | | | | | | |
| Maine | 0 | 0 | 45 | 35 | 0 | 4 | 9 | 2 |
| New Hampshire | 0 | 0 | 22 | 5 | 0 | 0 | 0 | 0 |
| Vermont | 0 | 0 | 7 | 7 | 4 | 1 | 0 | 0 |
| Massachusetts | 0 | 0 | 302 | 267 | 0 | 0 | 5 | 2 |
| Rhode Island | 0 | 0 | 31 | 35 | 0 | 0 | 0 | 0 |
| Connecticut | 1 | 0 | 127 | 65 | 0 | 0 | 1 | 0 |
| Middle Atlantic States: | | | | | | | | |
| New York | 3 | 1 | 478 | 496 | 7 | 0 | 31 | 12 |
| New Jersey | 0 | 0 | 275 | 159 | 0 | 0 | 3 | 3 |
| Pennsylvania | 0 | 4 | 487 | 473 | 3 | 0 | 13 | 12 |
| East North Central States: | | | | | | | | |
| Ohio | 0 | 1 | 379 | 432 | 170 | 48 | 7 | 8 |
| Indiana | 0 | 0 | 183 | 191 | 173 | 40 | 3 | 1 |
| Illinois | 1 | 0 | 607 | 511 | 137 | 149 | 8 | 3 |
| Michigan | 0 | 1 | 335 | 478 | 93 | 43 | 3 | 2 |
| Wisconsin | 1 | 0 | 140 | 136 | 9 | 9 | 4 | 3 |
| West North Central States: | | | | | | | | |
| Minnesota | 0 | 0 | 126 | 173 | 6 | 5 | 2 | 2 |
| Iowa | 0 | 1 | 107 | 176 | 67 | 31 | 0 | 1 |
| Missouri | 0 | 0 | 117 | 91 | 95 | 36 | 5 | 2 |
| North Dakota | 1 | 0 | 41 | 39 | 27 | 2 | 0 | 1 |
| South Dakota | 0 | 0 | 32 | 24 | 129 | 47 | 1 | 0 |
| Nebraska | 0 | 0 | 59 | 140 | 74 | 55 | 1 | 1 |
| Kansas | 1 | 0 | 120 | 175 | 72 | 46 | 0 | 1 |
| South Atlantic States: | | | | | | | | |
| Delaware | 0 | 0 | 16 | 5 | 0 | 0 | 0 | 0 |
| Maryland | 1 | 0 | 95 | 72 | 0 | 0 | 0 | 6 |
| District of Columbia | 1 | 0 | 22 | 28 | 0 | 0 | 0 | 0 |
| Virginia | 1 | | | | | | | |
| West Virginia | 0 | 0 | 57 | 19 | 56 | 15 | 7 | 2 |
| North Carolina | 2 | 0 | 62 | 53 | 14 | 13 | 7 | 2 |
| South Carolina | 0 | 4 | 6 | 3 | 2 | 3 | 1 | 3 |
| Georgia | 0 | 0 | 34 | 15 | 0 | 1 | 2 | 3 |
| Florida | 0 | 0 | 9 | 14 | 4 | 3 | 4 | 1 |

¹ Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended February 15, 1930, and February 16, 1929—Continued

| Division and State | Poliomylitis | | Scarlet fever | | Smallpox | | Typhoid fever | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 | Week ended Feb. 15, 1930 | Week ended Feb. 16, 1929 |
| East South Central States: | | | | | | | | |
| Kentucky | 0 | 0 | 86 | 106 | 15 | 16 | 2 | 1 |
| Tennessee | 2 | 0 | 32 | 82 | 15 | 3 | 3 | 0 |
| Alabama | 2 | 0 | 25 | 0 | 0 | 10 | 1 | 1 |
| Mississippi | 1 | 0 | 16 | 7 | 1 | 0 | 1 | 4 |
| West South Central States: | | | | | | | | |
| Arkansas | 1 | 0 | 32 | 30 | 27 | 6 | 5 | 6 |
| Louisiana | 0 | 0 | 14 | 36 | 9 | 4 | 11 | 6 |
| Oklahoma ² | 1 | 0 | 61 | 42 | 102 | 50 | 13 | 4 |
| Texas | 0 | 1 | 57 | 59 | 43 | 89 | 1 | 2 |
| Mountain States: | | | | | | | | |
| Montana | 0 | 0 | 43 | 32 | 18 | 8 | 0 | 0 |
| Idaho | 0 | 0 | 10 | 9 | 17 | 20 | 0 | 1 |
| Wyoming | 0 | 0 | 3 | 5 | 7 | 4 | 0 | 0 |
| Colorado | 0 | 0 | 23 | 23 | 34 | 55 | 0 | 1 |
| New Mexico | 2 | 0 | 19 | 8 | 1 | 2 | 2 | 3 |
| Arizona | 0 | 1 | 10 | 11 | 19 | 7 | 0 | 0 |
| Utah ¹ | 0 | 0 | 8 | 14 | 2 | 4 | 0 | 0 |
| Pacific States: | | | | | | | | |
| Washington | 1 | 0 | 73 | 48 | 59 | 35 | 4 | 3 |
| Oregon | 0 | 0 | 31 | 33 | 16 | 56 | 2 | 0 |
| California | 1 | 3 | 271 | 368 | 73 | 59 | 11 | 9 |

¹ Figures for 1930 are exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

| State | Menin- gococ- cus menin- gitis | Diph- theria | Influ- enza | Malaria | Meas- sles | Pel- lagra | Polio- myeli- tis | Scarlet fever | Small- pox | Ty- phoid fever |
|----------------------|--|-----------------|----------------|---------|---------------|---------------|-------------------------|------------------|---------------|-----------------------|
| January, 1930 | | | | | | | | | | |
| Arizona | 57 | 44 | 140 | 1 | 13 | — | 0 | 71 | 146 | 7 |
| Florida | | 51 | 23 | 24 | 116 | 3 | 2 | 81 | 4 | 12 |
| Indiana | 88 | 125 | 128 | — | 312 | — | 1 | 772 | 880 | 8 |
| Iowa | 11 | 55 | 9 | — | — | — | 0 | 378 | 551 | 5 |
| Maine | | 13 | 25 | 1 | 8 | — | 0 | 221 | 0 | 5 |
| Vermont | | 9 | — | — | 82 | — | 0 | 75 | 53 | 0 |
| Wyoming | 3 | 6 | 13 | — | 47 | — | 0 | 29 | 49 | 1 |

| January, 1930 | | Lethargic encephalitis: | Cases |
|----------------------|-------|-------------------------|-------|
| Chicken pox: | Cases | Wyoming | 1 |
| Arizona | 167 | Arizona | 293 |
| Florida | 207 | Florida | 266 |
| Indiana | 484 | Indiana | 8 |
| Maine | 271 | Maine | 297 |
| Vermont | 272 | Vermont | 27 |
| Wyoming | 47 | Wyoming | 42 |
| Conjunctivitis: | | Ophthalmia neonatorum: | |
| Maine | 3 | Indiana | 1 |
| Dysentery: | | Paratyphoid fever: | |
| Arizona | 2 | Maine | 6 |
| Florida | 1 | Rabies in man: | |
| Glandular fever: | | Florida | 1 |
| Wyoming | 2 | Rabies in man: | |
| Impetigo contagiosa: | | Septic sore throat: | |
| Wyoming | 7 | Maine | 1 |

| | Cases | | Cases |
|-----------------|-------|-------------------|-------|
| Tetanus: | | Vincent's angina: | |
| Maine..... | 1 | Maine..... | 4 |
| Trachoma: | | Wyoming..... | 1 |
| Arizona..... | 279 | Whooping cough: | |
| Tularemia: | | Arizona..... | 51 |
| Indiana..... | 2 | Florida..... | 39 |
| Typhus fever: | | Indiana..... | 169 |
| Florida..... | 4 | Maine..... | 153 |
| Undulant fever: | | Vermont..... | 60 |
| Arizona..... | 1 | Wyoming..... | 8 |
| Florida..... | 2 | | |
| Indiana..... | 1 | | |
| Iowa..... | 13 | | |

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 95 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,375,000. The estimated population of the 88 cities reporting deaths is more than 29,780,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended February 8, 1930, and February 9, 1929

| | 1930 | 1929 | Estimated expectancy |
|---|-------|-------|----------------------|
| <i>Cases reported</i> | | | |
| Diphtheria: | | | |
| 46 States..... | 1,410 | 1,572 | |
| 95 cities..... | 573 | 700 | 992 |
| Measles: | | | |
| 43 States..... | 8,474 | 7,577 | |
| 95 cities..... | 1,978 | 1,277 | |
| Meningococcus meningitis: | | | |
| 47 States..... | 264 | 228 | |
| 95 cities..... | 114 | 100 | |
| Poliomyelitis; 46 States..... | 18 | 14 | |
| Scarlet fever: | | | |
| 46 States..... | 5,559 | 4,551 | |
| 95 cities..... | 1,967 | 1,465 | 1,570 |
| Smallpox: | | | |
| 46 States..... | 1,937 | 946 | |
| 95 cities..... | 180 | 33 | 69 |
| Typhoid fever: | | | |
| 46 States..... | 163 | 117 | |
| 95 cities..... | 27 | 30 | 35 |
| <i>Deaths reported</i> | | | |
| Influenza and pneumonia; 88 cities..... | 1,087 | 1,613 | |
| Smallpox; 88 cities..... | 0 | 0 | |

City reports for week ended February 8, 1930

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reason the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week ended during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1921 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

| Division, State, and city | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|---------------------------|-----------------------------|----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
| | | Cases estimated expectancy | Cases reported | Cases reported | Deaths reported | | | |
| NEW ENGLAND | | | | | | | | |
| Maine: | | | | | | | | |
| Portland | | 1 | | | | | | |
| New Hampshire: | | | | | | | | |
| Concord | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| Manchester | 0 | 1 | 0 | | 0 | 0 | 0 | 3 |
| Nashua | 0 | 0 | 1 | | 0 | 0 | 0 | 0 |
| Vermont: | | | | | | | | |
| Barre | 13 | 0 | 0 | | 0 | 4 | 1 | 0 |
| Burlington | 5 | 1 | 0 | | 0 | 0 | 1 | 0 |
| Massachusetts: | | | | | | | | |
| Boston | 62 | 46 | 27 | 1 | 0 | 74 | 69 | 12 |
| Fall River | 8 | 4 | 6 | | 0 | 0 | 1 | 6 |
| Springfield | 8 | 4 | 5 | | 0 | 3 | 6 | 3 |
| Worcester | 13 | 4 | 1 | | 0 | 48 | 0 | 2 |
| Rhode Island: | | | | | | | | |
| Pawtucket | 8 | 1 | 1 | | 0 | 0 | 1 | 1 |
| Providence | 3 | 10 | 6 | | 0 | 0 | 1 | 9 |
| Connecticut: | | | | | | | | |
| Bridgeport | 3 | 6 | 1 | 2 | 2 | 0 | 0 | 9 |
| Hartford | 11 | 8 | 1 | | 0 | 0 | 0 | 13 |
| New Haven | 64 | 1 | 1 | | 0 | 4 | 13 | 10 |
| MIDDLE ATLANTIC | | | | | | | | |
| New York: | | | | | | | | |
| Buffalo | 17 | 14 | 7 | | 1 | 0 | 8 | 30 |
| New York | 219 | 226 | 104 | 53 | 13 | 123 | 146 | 221 |
| Rochester | 18 | 10 | 3 | | 0 | 0 | 5 | 3 |
| Syracuse | 28 | 4 | 0 | | 0 | 0 | 55 | 9 |
| New Jersey: | | | | | | | | |
| Camden | 6 | 7 | 9 | | 0 | 1 | 1 | 7 |
| Newark | 70 | 18 | 32 | 9 | 0 | 108 | 5 | 16 |
| Trenton | 4 | 3 | 0 | 1 | 0 | 21 | 0 | 3 |
| Pennsylvania: | | | | | | | | |
| Philadelphia | 93 | 73 | 30 | 7 | 5 | 42 | 44 | 68 |
| Pittsburgh | 40 | 23 | 17 | | 4 | 83 | 12 | 38 |
| Reading | 5 | 2 | 0 | | 0 | 1 | 1 | 3 |
| Scranton | 3 | 5 | 2 | | 0 | 1 | 0 | 0 |
| EAST NORTH CENTRAL | | | | | | | | |
| Ohio: | | | | | | | | |
| Cincinnati | 7 | 9 | 5 | | 3 | 0 | 1 | 16 |
| Cleveland | 94 | 36 | 16 | 5 | 5 | 4 | 17 | 21 |
| Columbus | 9 | 4 | 2 | 1 | 0 | 7 | 1 | 10 |
| Toledo | 36 | 7 | 4 | 2 | 2 | 219 | 14 | 8 |
| Indiana: | | | | | | | | |
| Fort Wayne | 1 | 3 | 1 | | 1 | 0 | 0 | 0 |
| Indianapolis | 21 | 8 | 4 | | 0 | 5 | 5 | 13 |
| South Bend | 1 | 2 | 0 | | 0 | 1 | 0 | 2 |
| Terre Haute | 3 | 1 | 0 | | 0 | 0 | 0 | 3 |
| Illinois: | | | | | | | | |
| Chicago | 116 | 101 | 97 | 14 | 2 | 16 | 33 | 86 |
| Springfield | 5 | 1 | 0 | 11 | 1 | 0 | 0 | 1 |

City reports for week ended February 8, 1930—Continued

| Division, State, and city | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|-------------------------------------|-----------------------------|----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
| | | Cases estimated expectancy | Cases reported | Cases reported | Deaths reported | | | |
| EAST NORTH CENTRAL—continued | | | | | | | | |
| Michigan: | | | | | | | | |
| Detroit | 88 | 53 | 34 | 7 | 4 | 175 | 64 | 46 |
| Flint | 22 | 4 | 1 | | 0 | 1 | 0 | 6 |
| Grand Rapids | 4 | 3 | 0 | | 2 | 1 | 0 | 1 |
| Wisconsin: | | | | | | | | |
| Kenosha | 5 | 2 | 0 | | 0 | 3 | 0 | 0 |
| Madison | 12 | 1 | 0 | | 0 | 79 | 4 | 0 |
| Milwaukee | 161 | 20 | 4 | 2 | 2 | 3 | 34 | 15 |
| Racine | 9 | 3 | 1 | | 0 | 0 | 0 | 0 |
| Superior | 0 | 1 | 0 | | 0 | 59 | 0 | 2 |
| WEST NORTH CENTRAL | | | | | | | | |
| Minnesota: | | | | | | | | |
| Duluth | 3 | 1 | 0 | | 2 | 38 | 0 | 3 |
| Minneapolis | 54 | 19 | 2 | | 1 | 54 | 57 | 5 |
| St. Paul | 26 | 10 | 0 | | 1 | 18 | 12 | 8 |
| Iowa: | | | | | | | | |
| Davenport | 2 | 1 | 0 | | | 0 | 0 | |
| Des Moines | 3 | 2 | 1 | | | 45 | 4 | |
| Sioux City | 13 | 1 | 0 | | | 4 | 0 | |
| Waterloo | 17 | 0 | 0 | | | 142 | 0 | |
| Missouri: | | | | | | | | |
| Kansas City | 7 | | | | 0 | 2 | 0 | 5 |
| St. Joseph | 2 | 1 | 0 | | | 4 | 8 | |
| St. Louis | 17 | 47 | 27 | | | | | |
| North Dakota: | | | | | | | | |
| Fargo | 5 | 0 | 1 | | 0 | 0 | 14 | 0 |
| Grand Forks | 6 | 1 | 0 | | | 0 | | |
| South Dakota: | | | | | | | | |
| Aberdeen | 11 | 0 | 0 | | | 1 | 3 | |
| Sioux Falls | 0 | 1 | 0 | | | 11 | 0 | |
| Nebraska: | | | | | | | | |
| Omaha | 10 | 4 | 8 | | 0 | 31 | 1 | 9 |
| Kansas: | | | | | | | | |
| Topeka | 20 | 2 | 0 | 3 | 1 | 16 | 10 | 2 |
| Wichita | 19 | 4 | 4 | | 0 | 3 | 0 | 6 |
| SOUTH ATLANTIC | | | | | | | | |
| Delaware: | | | | | | | | |
| Wilmington | 2 | 2 | 2 | | 0 | 1 | 0 | 8 |
| Maryland: | | | | | | | | |
| Baltimore | 81 | 30 | 9 | 31 | 2 | 3 | 5 | 34 |
| Cumberland | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| Frederick | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| District of Columbia: | | | | | | | | |
| Washington | 29 | 22 | 12 | 1 | 0 | 6 | 0 | 14 |
| Virginia: | | | | | | | | |
| Lynchburg | 7 | 1 | 1 | | 0 | 103 | 18 | 1 |
| Norfolk | 14 | 1 | 4 | | 0 | 1 | 6 | 5 |
| Richmond | 1 | 3 | 6 | | 1 | 0 | 0 | 3 |
| Roanoke | 2 | 1 | 2 | | 0 | 11 | 1 | 0 |
| West Virginia: | | | | | | | | |
| Charleston | 23 | 1 | 0 | 1 | 0 | 1 | 0 | 2 |
| Wheeling | 2 | 1 | 0 | | 0 | 0 | 0 | |
| North Carolina: | | | | | | | | |
| Raleigh | 23 | 1 | 1 | | 0 | 0 | 0 | 0 |
| Wilmington | 1 | 0 | 0 | | 0 | 0 | 0 | 7 |
| Winston-Salem | 9 | 1 | 2 | 3 | 1 | 0 | 3 | |
| South Carolina: | | | | | | | | |
| Charleston | 0 | 0 | 0 | 64 | 1 | 0 | 4 | 3 |
| Columbia | 6 | 0 | 2 | | 0 | 0 | 2 | 6 |
| Georgia: | | | | | | | | |
| Atlanta | 9 | 2 | 0 | 31 | 1 | 3 | 13 | 13 |
| Brunswick | 0 | 0 | 0 | | 0 | 0 | 1 | 0 |
| Savannah | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 6 |
| Florida: | | | | | | | | |
| Miami | 1 | 2 | 4 | | 0 | 2 | 1 | 1 |
| St. Petersburg | 0 | 0 | | | 0 | 0 | 0 | 0 |
| Tampa | 2 | 2 | 1 | | 0 | 6 | 4 | 2 |

City reports for week ended February 8, 1930—Continued

| Division, State, and city | Chicken pox, cases reported | Diphtheria | | Influenza | | Measles, cases reported | Mumps, cases reported | Pneumonia, deaths reported |
|---------------------------|-----------------------------|----------------------------|----------------|----------------|-----------------|-------------------------|-----------------------|----------------------------|
| | | Cases estimated expectancy | Cases reported | Cases reported | Deaths reported | | | |
| EAST SOUTH CENTRAL | | | | | | | | |
| Kentucky: | | | | | | | | |
| Covington..... | 0 | 1 | 1 | | 0 | 0 | 0 | 4 |
| Tennessee: | | | | | | | | |
| Memphis..... | 8 | 4 | 3 | | 1 | 2 | 15 | 9 |
| Nashville..... | 2 | 1 | 2 | | 2 | 1 | 0 | 9 |
| Alabama: | | | | | | | | |
| Birmingham..... | 9 | 3 | 4 | 21 | 1 | 3 | 7 | 6 |
| Mobile..... | 1 | 0 | 2 | 2 | 1 | 3 | 0 | 4 |
| Montgomery..... | 4 | 1 | 0 | | | 3 | 2 | |
| WEST SOUTH CENTRAL | | | | | | | | |
| Arkansas: | | | | | | | | |
| Fort Smith..... | 1 | 1 | 0 | | 0 | 0 | 0 | |
| Little Rock..... | 3 | 1 | 0 | | 0 | 0 | 3 | 7 |
| Louisiana: | | | | | | | | |
| New Orleans..... | 0 | 13 | 15 | 15 | 9 | 66 | 0 | 22 |
| Shreveport..... | 3 | 0 | 2 | | 0 | 1 | 2 | 4 |
| Oklahoma: | | | | | | | | |
| Oklahoma City..... | 1 | 2 | 1 | 16 | 1 | 3 | 4 | 4 |
| Tulsa..... | 29 | 2 | 3 | | | 96 | 0 | |
| Texas: | | | | | | | | |
| Dallas..... | 14 | 6 | 6 | 2 | 0 | 119 | 2 | 21 |
| Fort Worth..... | 16 | 6 | 2 | | 3 | 0 | 0 | 13 |
| Galveston..... | 0 | 1 | 1 | | 0 | 0 | 0 | 3 |
| Houston..... | 1 | 6 | 16 | | 0 | 0 | 1 | 8 |
| San Antonio..... | 0 | 3 | 5 | 1 | 5 | 0 | 1 | 11 |
| MOUNTAIN | | | | | | | | |
| Montana: | | | | | | | | |
| Billings..... | 0 | 0 | 0 | | 0 | 0 | 14 | 2 |
| Great Falls..... | 1 | 1 | 0 | | 1 | 3 | 21 | 3 |
| Helena..... | 0 | 0 | 1 | | 0 | 0 | 36 | 9 |
| Missoula..... | 0 | 0 | 0 | | 0 | 0 | 2 | 2 |
| Idaho: | | | | | | | | |
| Boise..... | 1 | 0 | 0 | | 0 | 0 | 1 | 0 |
| Colorado: | | | | | | | | |
| Denver..... | | 13 | | | | | | |
| Pueblo..... | 9 | 2 | 0 | | 0 | 1 | 24 | 3 |
| New Mexico: | | | | | | | | |
| Albuquerque..... | 2 | 0 | 1 | | 0 | 2 | 9 | 2 |
| Arizona: | | | | | | | | |
| Phoenix..... | 5 | 0 | 3 | | 0 | 0 | 1 | 2 |
| Utah: | | | | | | | | |
| Salt Lake City..... | 20 | 3 | 1 | | 0 | 24 | 7 | 5 |
| Nevada: | | | | | | | | |
| Reno..... | 0 | 0 | 0 | | 0 | 0 | 0 | 1 |
| PACIFIC | | | | | | | | |
| Washington: | | | | | | | | |
| Seattle..... | 48 | 5 | 0 | | | 13 | 46 | |
| Spokane..... | 9 | 3 | 0 | | | 0 | 0 | |
| Tacoma..... | 20 | 2 | 1 | | 0 | 2 | 7 | 5 |
| Oregon: | | | | | | | | |
| Portland..... | 13 | 9 | 6 | 12 | 1 | 9 | 18 | 16 |
| Salem..... | 5 | 0 | 0 | | 0 | 0 | 4 | 9 |
| California: | | | | | | | | |
| Los Angeles..... | 99 | 43 | 16 | 34 | 3 | 48 | 44 | 31 |
| Sacramento..... | 4 | 3 | 0 | | 0 | 0 | 27 | 9 |
| San Francisco..... | 45 | 17 | 1 | 5 | 0 | 445 | 73 | 7 |

City reports for week ended February 8, 1930—Continued

| Division, State, and city | Scarlet fever | | Smallpox | | | Tuber-cu-losis, deaths re-ported | Typhoid fever | | | Whoop-ing cough, cases re-ported | Deaths, all causes |
|---------------------------|--------------------------------|-----------------|--------------------------------|-----------------|------------------|----------------------------------|--------------------------------|-----------------|------------------|----------------------------------|--------------------|
| | Cases, es-ti-mated ex-pectancy | Cases re-ported | Cases, es-ti-mated ex-pectancy | Cases re-ported | Deaths re-ported | | Cases, es-ti-mated ex-pectancy | Cases re-ported | Deaths re-ported | | |
| NEW ENGLAND | | | | | | | | | | | |
| Maine: | | | | | | | | | | | |
| Portland | 4 | — | 0 | — | — | 0 | — | — | — | — | — |
| New Hampshire: | | | | | | | | | | | |
| Concord | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Manchester | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 20 |
| Nashua | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| Vermont: | | | | | | | | | | | |
| Barre | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Burlington | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| Massachusetts: | | | | | | | | | | | |
| Boston | 83 | 106 | 0 | 0 | 0 | 17 | 1 | 0 | 0 | 66 | 232 |
| Fall River | 4 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 15 | 32 |
| Springfield | 9 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 42 |
| Worcester | 10 | 9 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 47 |
| Rhode Island: | | | | | | | | | | | |
| Pawtucket | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 15 |
| Providence | 13 | 24 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 20 | 75 |
| Connecticut: | | | | | | | | | | | |
| Bridgeport | 13 | 33 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 53 |
| Hartford | 6 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 55 |
| New Haven | 11 | 12 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 16 | 62 |
| MIDDLE ATLANTIC | | | | | | | | | | | |
| New York: | | | | | | | | | | | |
| Buffalo | 31 | 24 | 40 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 160 |
| New York | 331 | 258 | 0 | 0 | 0 | 92 | 7 | 4 | 0 | 32 | 1,655 |
| Rochester | 11 | 11 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 67 |
| Syracuse | 14 | 26 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 31 | 53 |
| New Jersey: | | | | | | | | | | | |
| Camden | 7 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 39 |
| Newark | 35 | 44 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 38 | 130 |
| Trenton | 7 | 24 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 8 | 38 |
| Pennsylvania: | | | | | | | | | | | |
| Philadelphia | 103 | 141 | 0 | 0 | 0 | 39 | 2 | 0 | 0 | 27 | 508 |
| Pittsburgh | 42 | 39 | 0 | 0 | 0 | 11 | 1 | 0 | 0 | 45 | 215 |
| Reading | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 31 |
| Scranton | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| EAST NORTH CENTRAL | | | | | | | | | | | |
| Ohio: | | | | | | | | | | | |
| Cincinnati | 21 | 15 | 1 | 4 | 0 | 7 | 0 | 1 | 1 | 8 | 177 |
| Cleveland | 48 | 51 | 0 | 1 | 0 | 16 | 1 | 0 | 0 | 87 | 227 |
| Columbus | 11 | 15 | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 84 |
| Toledo | 14 | 23 | 1 | 12 | 0 | 7 | 0 | 0 | 0 | 5 | 83 |
| Indiana: | | | | | | | | | | | |
| Fort Wayne | 5 | 8 | 0 | 15 | 0 | 0 | 0 | 4 | 0 | 1 | 27 |
| Indianapolis | 13 | 19 | 7 | 8 | 0 | 5 | 1 | 0 | 0 | 10 | — |
| South Bend | 3 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | — |
| Terre Haute | 4 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Illinois: | | | | | | | | | | | |
| Chicago | 139 | 345 | 3 | 6 | 0 | 47 | 3 | 2 | 0 | 109 | 788 |
| Springfield | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 14 |
| Michigan: | | | | | | | | | | | |
| Detroit | 110 | 140 | 3 | 3 | 0 | 27 | 1 | 1 | 0 | 61 | 351 |
| Flint | 13 | 25 | 1 | 11 | 0 | 2 | 0 | 0 | 0 | 5 | 31 |
| Grand Rapids | 13 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 27 |
| Wisconsin: | | | | | | | | | | | |
| Kenosha | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 5 |
| Madison | 4 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | — |
| Milwaukee | 39 | 28 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 49 | 127 |
| Racine | 6 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 12 |
| Superior | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 8 |
| WEST NORTH CENTRAL | | | | | | | | | | | |
| Minnesota: | | | | | | | | | | | |
| Duluth | 10 | 8 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | 23 |
| Minneapolis | 61 | 16 | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 14 | 102 |
| St. Paul | 36 | 20 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 17 | 64 |

City reports for week ended February 8, 1930—Continued

| Division, State, and city | Scarlet fever | | Smallpox | | Tuber-cu-losis, deaths re-ported | Cases, estimated expectancy | Typhoid fever | | Whoop-ing cough, cases re-ported | Deaths, all causes |
|--------------------------------------|-----------------------------|-----------------|-----------------------------|-----------------|----------------------------------|-----------------------------|-----------------|------------------|----------------------------------|--------------------|
| | Cases, estimated expectancy | Cases re-ported | Cases, estimated expectancy | Cases re-ported | | | Cases re-ported | Deaths re-ported | | |
| WEST NORTH CENTRAL—continued. | | | | | | | | | | |
| Iowa: | | | | | | | | | | |
| Davenport | 2 | 0 | 1 | 7 | | 0 | 0 | 0 | 0 | 0 |
| Des Moines | 10 | 13 | 2 | 9 | | 0 | 0 | 0 | 0 | 48 |
| Sioux City | 2 | 9 | 0 | 2 | | 0 | 0 | 0 | 1 | 1 |
| Waterloo | 3 | 2 | 0 | 18 | | 0 | 0 | 0 | 1 | 1 |
| Missouri: | | | | | | | | | | |
| Kansas City | 16 | | 3 | | | 1 | | | | |
| St. Joseph | 3 | 4 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 36 |
| St. Louis | 48 | 40 | 2 | 8 | 0 | 12 | 1 | 1 | 9 | 247 |
| North Dakota: | | | | | | | | | | |
| Fargo | 2 | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 13 | 6 |
| Grand Forks | 1 | 6 | 1 | 5 | | | 0 | 0 | 0 | 0 |
| South Dakota: | | | | | | | | | | |
| Aberdeen | 2 | 0 | 0 | 0 | | | 0 | 1 | 0 | 0 |
| Sioux Falls | 3 | 1 | 0 | 10 | | 0 | 0 | 0 | 0 | 8 |
| Nebraska: | | | | | | | | | | |
| Omaha | 6 | 14 | 2 | 1 | 0 | 2 | 0 | 0 | 1 | 45 |
| Kansas: | | | | | | | | | | |
| Topeka | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 19 |
| Wichita | 6 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 38 |
| SOUTH ATLANTIC | | | | | | | | | | |
| Delaware: | | | | | | | | | | |
| Wilmington | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 28 |
| Maryland: | | | | | | | | | | |
| Baltimore | 36 | 50 | 0 | 0 | 0 | 15 | 1 | 1 | 20 | 259 |
| Cumberland | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Frederick | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| District of Col.: | | | | | | | | | | |
| Washington | 28 | 12 | 0 | 0 | 0 | 12 | 1 | 4 | 0 | 145 |
| Virginia: | | | | | | | | | | |
| Lynchburg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 |
| Norfolk | 2 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| Richmond | 4 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 35 |
| Roanoke | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 17 |
| West Virginia: | | | | | | | | | | |
| Charleston | 2 | 2 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 16 |
| Wheeling | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 17 |
| North Carolina: | | | | | | | | | | |
| Raleigh | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 |
| Wilmington | 0 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 2 | 14 |
| Winston-Salem | 2 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| South Carolina: | | | | | | | | | | |
| Charleston | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 26 |
| Columbia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 28 |
| Georgia: | | | | | | | | | | |
| Atlanta | 5 | 15 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 94 |
| Brunswick | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
| Savannah | 0 | 4 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 35 |
| Florida: | | | | | | | | | | |
| Miami | 1 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 40 |
| St. Petersburg | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 14 |
| Tampa | 1 | 5 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 37 |
| EAST SOUTH CENTRAL | | | | | | | | | | |
| Kentucky: | | | | | | | | | | |
| Covington | 2 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 18 |
| Tennessee: | | | | | | | | | | |
| Memphis | 7 | 11 | 1 | 0 | 0 | 14 | 1 | 1 | 0 | 93 |
| Nashville | 3 | 4 | 1 | 0 | 0 | 3 | 0 | 1 | 0 | 46 |
| Alabama: | | | | | | | | | | |
| Birmingham | 3 | 4 | 3 | 0 | 0 | 7 | 0 | 1 | 0 | 85 |
| Mobile | 0 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 21 |
| Montgomery | 0 | 6 | 0 | 0 | | 0 | 0 | 0 | 2 | |
| WEST SOUTH CENTRAL | | | | | | | | | | |
| Arkansas: | | | | | | | | | | |
| Fort Smith | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | |
| Little Rock | 2 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | |
| Louisiana: | | | | | | | | | | |
| New Orleans | 7 | 16 | 0 | 0 | 0 | 15 | 2 | 2 | 0 | 171 |
| Shreveport | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 20 |

City reports for week ended February 8, 1930—Continued

| Division, State, and city | Meningoococcus meningitis | | Lethargic encephalitis | | Pellagra | | Poliomyelitis (infantile paralysis) | | |
|---------------------------|---------------------------|--------|------------------------|--------|----------|--------|-------------------------------------|-------|--------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases, estimated expectancy | Cases | Deaths |
| EAST NORTH CENTRAL | | | | | | | | | |
| Ohio: | | | | | | | | | |
| Cincinnati..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Cleveland..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Toledo..... | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana: | | | | | | | | | |
| Indianapolis..... | 14 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Bend..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois: | | | | | | | | | |
| Chicago..... | 8 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| Michigan: | | | | | | | | | |
| Detroit..... | 23 | 14 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Wisconsin: | | | | | | | | | |
| Milwaukee..... | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| WEST NORTH CENTRAL | | | | | | | | | |
| Minnesota: | | | | | | | | | |
| Duluth..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri: | | | | | | | | | |
| St. Louis..... | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nebraska: | | | | | | | | | |
| Omaha..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SOUTH ATLANTIC | | | | | | | | | |
| Maryland: | | | | | | | | | |
| Baltimore..... | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Virginia: | | | | | | | | | |
| Norfolk..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| South Carolina: | | | | | | | | | |
| Charleston..... | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| Columbia..... | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Georgia: | | | | | | | | | |
| Atlanta..... | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Savannah..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Florida: | | | | | | | | | |
| Miami..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Tampa..... | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| EAST SOUTH CENTRAL | | | | | | | | | |
| Tennessee: | | | | | | | | | |
| Memphis..... | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Alabama: | | | | | | | | | |
| Birmingham..... | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Montgomery..... | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| WEST SOUTH CENTRAL | | | | | | | | | |
| Oklahoma: | | | | | | | | | |
| Tulsa..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas: | | | | | | | | | |
| Dallas..... | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| MOUNTAIN | | | | | | | | | |
| New Mexico: | | | | | | | | | |
| Albuquerque..... | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona: | | | | | | | | | |
| Phoenix..... | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Utah: | | | | | | | | | |
| Salt Lake..... | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PACIFIC | | | | | | | | | |
| Washington: | | | | | | | | | |
| Seattle..... | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California: | | | | | | | | | |
| Los Angeles..... | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| San Francisco..... | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |

1 Typhus fever; 1 case at Tampa, Fla.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended February 8, 1930, compared with those for a like period ended February 9, 1929. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have an estimated aggregate population of more than 32,000,000. The 91 cities reporting deaths have more than 30,500,000 estimated population.

Summary of weekly reports from cities, January 5 to February 8, 1930—Annual rates per 100,000 population, compared with rates for the corresponding period of 1929¹

DIPHTHERIA CASE RATES

| | Week ended— | | | | | | | | | |
|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| | Jan. 11, 1930 | Jan. 12, 1929 | Jan. 18, 1930 | Jan. 19, 1929 | Jan. 25, 1930 | Jan. 26, 1929 | Feb. 1, 1930 | Feb. 2, 1929 | Feb. 8, 1930 | Feb. 9, 1929 |
| 98 cities..... | 118 | 139 | 110 | ² 132 | ³ 114 | 125 | ⁴ 115 | 109 | ⁵ 95 | 117 |
| New England..... | 156 | 183 | 122 | 177 | 146 | 200 | ⁶ 128 | 108 | ⁶ 112 | 117 |
| Middle Atlantic..... | 113 | 157 | 94 | 158 | 96 | 136 | ⁷ 103 | 133 | 97 | 141 |
| East North Central..... | 130 | 124 | 127 | ² 107 | 145 | 122 | 140 | 106 | 103 | 113 |
| West North Central..... | 123 | 158 | 108 | 146 | 82 | 115 | ⁸ 47 | 90 | ⁹ 94 | 146 |
| South Atlantic..... | 83 | 118 | 103 | 99 | 106 | 79 | 106 | 107 | 70 | 67 |
| East South Central..... | 79 | 190 | 67 | 171 | 74 | 137 | 94 | 68 | 81 | 82 |
| West South Central..... | 170 | 119 | 205 | 76 | 157 | 114 | 232 | 95 | 168 | 114 |
| Mountain..... | 69 | 87 | 51 | 61 | ³ 51 | 52 | ³ 34 | 70 | ³ 34 | 78 |
| Pacific..... | 85 | 67 | 94 | 104 | 92 | 92 | ¹⁰ 68 | 65 | 43 | 68 |

MEASLES CASE RATES

| 98 cities..... | 176 | 235 | 208 | ² 218 | ³ 227 | 261 | ⁴ 221 | 274 | ⁵ 329 | 232 |
|-------------------------|-----|-----|-----|------------------|------------------|-----|-------------------|-----|------------------|-------|
| New England..... | 112 | 873 | 157 | 700 | 210 | 667 | ⁶ 323 | 514 | ⁶ 305 | 561 |
| Middle Atlantic..... | 116 | 94 | 124 | 70 | 117 | 86 | ⁷ 160 | 93 | 186 | 129 |
| East North Central..... | 153 | 315 | 152 | ² 303 | 137 | 381 | 168 | 418 | 172 | 66 |
| West North Central..... | 303 | 394 | 364 | 423 | 457 | 627 | ⁸ 604 | 770 | ⁹ 695 | 1,193 |
| South Atlantic..... | 118 | 66 | 167 | 84 | 157 | 84 | 257 | 103 | 245 | 133 |
| East South Central..... | 13 | 7 | 40 | 34 | 27 | 27 | 61 | 7 | 81 | 14 |
| West South Central..... | 325 | 43 | 400 | 11 | 624 | 34 | 314 | 34 | 695 | 34 |
| Mountain..... | 146 | 427 | 240 | 853 | ³ 377 | 871 | ⁴ 462 | 697 | ⁵ 479 | 1,341 |
| Pacific..... | 517 | 115 | 676 | 56 | 730 | 75 | ¹⁰ 124 | 99 | 1,200 | 135 |

SCARLET FEVER CASE RATES

| 98 cities..... | 271 | 221 | 278 | ² 225 | ³ 295 | 230 | ⁴ 305 | 232 | ⁵ 327 | 246 |
|-------------------------|-----|-----|-----|------------------|------------------|-----|-------------------|-----|------------------|-----|
| New England..... | 397 | 317 | 363 | 294 | 419 | 317 | ⁶ 321 | 303 | ⁶ 479 | 305 |
| Middle Atlantic..... | 232 | 190 | 223 | 183 | 239 | 217 | ⁷ 252 | 190 | 274 | 186 |
| East North Central..... | 352 | 251 | 398 | ² 258 | 379 | 262 | 420 | 280 | 432 | 318 |
| West North Central..... | 216 | 283 | 260 | 248 | 307 | 296 | ⁸ 346 | 306 | ⁹ 332 | 312 |
| South Atlantic..... | 201 | 124 | 198 | 122 | 176 | 114 | 205 | 131 | 203 | 146 |
| East South Central..... | 106 | 156 | 101 | 232 | 169 | 232 | 162 | 157 | 216 | 246 |
| West South Central..... | 120 | 182 | 134 | 183 | 105 | 99 | 78 | 145 | 138 | 232 |
| Mountain..... | 481 | 157 | 335 | 183 | ³ 479 | 104 | ⁴ 616 | 61 | ⁵ 411 | 113 |
| Pacific..... | 281 | 282 | 276 | 377 | 402 | 258 | ¹⁰ 367 | 350 | 338 | 304 |

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1930, and 1929, respectively.

² South Bend, Ind., not included.

³ Denver, Colo., not included.

⁴ Portland, Me., Buffalo, N. Y., St. Louis, Mo., Denver, Colo., and San Francisco, Calif., not included.

⁵ Portland, Me., Kansas City, Mo., and Denver, Colo., not included.

⁶ Portland, Me., not included.

⁷ Buffalo, N. Y., not included.

⁸ St. Louis, Mo., not included.

⁹ Kansas City, Mo., not included.

¹⁰ San Francisco, Calif., not included.

Summary of weekly reports from cities, January 5 to February 8, 1930—Annual rates per 100,000 population, compared with rates for the corresponding period of 1929—Continued

SMALLPOX CASE RATES

| | Week ended— | | | | | | | | | |
|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| | Jan. 11, 1930 | Jan. 12, 1929 | Jan. 18, 1930 | Jan. 19, 1929 | Jan. 25, 1930 | Jan. 26, 1929 | Feb. 1, 1930 | Feb. 2, 1929 | Feb. 8, 1930 | Feb. 9, 1929 |
| 98 cities..... | 29 | 5 | 33 | 17 | 26 | 8 | 33 | 7 | 30 | 5 |
| New England..... | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 2 | 0 |
| Middle Atlantic..... | 0 | 0 | 0 | 1 | 0 | 0 | 70 | 0 | 0 | 0 |
| East North Central..... | 27 | 3 | 36 | 26 | 19 | 8 | 39 | 10 | 34 | 8 |
| West North Central..... | 89 | 6 | 121 | 13 | 70 | 2 | 53 | 8 | 69 | 2 |
| South Atlantic..... | 0 | 2 | 5 | 6 | 2 | 7 | 5 | 11 | 4 | 0 |
| East South Central..... | 7 | 41 | 0 | 7 | 0 | 14 | 13 | 7 | 0 | 0 |
| West South Central..... | 43 | 16 | 41 | 46 | 37 | 46 | 78 | 27 | 101 | 50 |
| Mountain..... | 43 | 78 | 51 | 17 | 34 | 61 | 86 | 78 | 34 | 26 |
| Pacific..... | 170 | 7 | 144 | 17 | 177 | 19 | 244 | 7 | 146 | 7 |

TYPHOID FEVER CASE RATES

| | | | | | | | | | | |
|-------------------------|---|----|----|----|----|----|----|---|----|----|
| 98 cities..... | 3 | 4 | 6 | 14 | 14 | 4 | 5 | 4 | 4 | 5 |
| New England..... | 0 | 2 | 4 | 4 | 0 | 2 | 0 | 2 | 0 | 2 |
| Middle Atlantic..... | 3 | 4 | 3 | 4 | 5 | 2 | 75 | 4 | 3 | 4 |
| East North Central..... | 2 | 1 | 3 | 2 | 3 | 4 | 3 | 1 | 5 | 3 |
| West North Central..... | 2 | 0 | 11 | 2 | 2 | 4 | 6 | 6 | 2 | 2 |
| South Atlantic..... | 9 | 4 | 5 | 6 | 7 | 2 | 7 | 7 | 11 | 6 |
| East South Central..... | 7 | 7 | 13 | 21 | 20 | 7 | 7 | 0 | 20 | 7 |
| West South Central..... | 4 | 28 | 7 | 8 | 4 | 23 | 4 | 8 | 7 | 27 |
| Mountain..... | 0 | 0 | 60 | 0 | 17 | 0 | 17 | 0 | 10 | 9 |
| Pacific..... | 5 | 0 | 5 | 2 | 2 | 10 | 20 | 7 | 2 | 7 |

INFLUENZA DEATH RATES

| | | | | | | | | | | |
|-------------------------|----|-------|----|-----|-----|-----|------|-----|----|-----|
| 91 cities..... | 19 | 241 | 19 | 183 | 22 | 131 | 1118 | 84 | 14 | 58 |
| New England..... | 0 | 100 | 9 | 141 | 9 | 204 | 141 | 0 | 5 | 90 |
| Middle Atlantic..... | 14 | 161 | 15 | 152 | 14 | 134 | 16 | 83 | 11 | 58 |
| East North Central..... | 12 | 236 | 17 | 148 | 17 | 70 | 13 | 48 | 13 | 28 |
| West North Central..... | 30 | 165 | 27 | 123 | 18 | 69 | 18 | 45 | 19 | 51 |
| South Atlantic..... | 31 | 395 | 22 | 288 | 31 | 182 | 11 | 114 | 11 | 92 |
| East South Central..... | 65 | 1,592 | 44 | 948 | 59 | 619 | 59 | 298 | 37 | 127 |
| West South Central..... | 64 | 467 | 65 | 320 | 111 | 199 | 88 | 168 | 54 | 102 |
| Mountain..... | 43 | 165 | 26 | 157 | 0 | 70 | 17 | 35 | 17 | 78 |
| Pacific..... | 15 | 79 | 15 | 75 | 18 | 44 | 5 | 41 | 9 | 41 |

PNEUMONIA DEATH RATES

| | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|
| 91 cities..... | 167 | 408 | 155 | 366 | 142 | 327 | 11171 | 273 | 176 | 230 |
| New England..... | 170 | 323 | 115 | 442 | 126 | 495 | 181 | 507 | 151 | 384 |
| Middle Atlantic..... | 192 | 443 | 167 | 446 | 135 | 454 | 165 | 360 | 190 | 268 |
| East North Central..... | 122 | 414 | 109 | 280 | 111 | 184 | 129 | 170 | 139 | 133 |
| West North Central..... | 192 | 285 | 207 | 241 | 148 | 189 | 160 | 189 | 146 | 185 |
| South Atlantic..... | 177 | 485 | 170 | 474 | 196 | 388 | 218 | 288 | 198 | 240 |
| East South Central..... | 136 | 659 | 162 | 455 | 221 | 358 | 272 | 209 | 236 | 194 |
| West South Central..... | 210 | 528 | 237 | 383 | 310 | 297 | 314 | 191 | 291 | 191 |
| Mountain..... | 223 | 200 | 249 | 200 | 171 | 157 | 205 | 148 | 274 | 235 |
| Pacific..... | 147 | 134 | 169 | 119 | 93 | 123 | 167 | 113 | 100 | 129 |

¹ South Bend, Ind., not included.

² Denver, Colo., not included.

³ Portland, Me., Buffalo, N. Y., St. Louis, Mo., Denver, Colo., and San Francisco, Calif., not included.

⁴ Portland, Me., Kansas City, Mo., and Denver, Colo., not included.

⁵ Portland, Me., not included.

⁶ Buffalo, N. Y., not included.

⁷ St. Louis, Mo., not included.

⁸ Kansas City, Mo., not included.

⁹ San Francisco, Calif., not included.

FOREIGN AND INSULAR

CANADA

Quebec Province—Communicable diseases—Week ended February 8, 1930.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended February 8, 1930, as follows:

| Disease | Cases | Disease | Cases |
|--------------------------|-------|-----------------------|-------|
| Cerebrospinal meningitis | 1 | Ophthalmia neonatorum | 1 |
| Chicken pox | 76 | Poliomyelitis | 2 |
| Diphtheria | 45 | Puerperal fever | 2 |
| German measles | 7 | Scarlet fever | 119 |
| Influenza | 16 | Tuberculosis | 26 |
| Measles | 136 | Typhoid fever | 5 |
| Mumps | 139 | Whooping cough | 111 |

Ontario Province—Communicable diseases (comparative)—Four weeks ended January 25, 1930.—The following table shows the number of cases of certain communicable diseases, with deaths therefrom, reported in the Province of Ontario, Canada, for the four weeks ended January 25, 1930, as compared with the corresponding period of 1929.

| Disease | 1929 | | 1930 | |
|--------------------------|-------|--------|-------|--------|
| | Cases | Deaths | Cases | Deaths |
| Cerebrospinal meningitis | 15 | 4 | 7 | 4 |
| Chancroid | 7 | 0 | 2 | 0 |
| Chicken pox | 773 | 1 | 1,183 | 0 |
| Conjunctivitis | 1 | 0 | 0 | 0 |
| Diphtheria | 300 | 23 | 269 | 13 |
| Erysipelas | 0 | 0 | 2 | 0 |
| German measles | 19 | 0 | 177 | 0 |
| Goiter | 1 | 0 | 0 | 0 |
| Gonorrhœa | 90 | 0 | 159 | 0 |
| Influenza | 7,495 | 323 | 20 | 5 |
| Lethargic encephalitis | 0 | 2 | 0 | 0 |
| Measles | 2,418 | 12 | 627 | 0 |
| Mumps | 360 | 0 | 223 | 0 |
| Puerperal septicemia | 1 | 0 | 0 | 0 |
| Pneumonia | 490 | | | 187 |
| Poliomyelitis | 2 | 0 | 2 | 1 |
| Scarlet fever | 391 | 0 | 739 | 3 |
| Smallpox ¹ | 38 | 0 | 51 | 0 |
| Syphilis | 90 | 0 | 110 | 0 |
| Tuberculosis | 96 | 46 | 85 | 55 |
| Typhoid fever | 21 | 1 | 21 | 2 |
| Whooping cough | 274 | 0 | 311 | 0 |

¹ The cases of smallpox in 1930 were reported from the following municipalities: Gainsboro, 1; Ottawa, 9; Bonfield, 13; Blandford, 1; Nepean, 3; Woodstock, 4; Welland, 3; Cochrane, 2; Sudbury, 7; Toronto, 2; Huntsworth, 1; Port Arthur, 2; North Bay, 3.

Ontario Province—Communicable diseases—Years 1928 and 1929.—
The following tabulation shows the number of cases and deaths from certain communicable diseases in the Province of Ontario, Canada, for the years 1928 and 1929.

| Disease | 1928 | | 1929 | |
|--------------------------|--------|--------|--------|--------|
| | Cases | Deaths | Cases | Deaths |
| Bronchitis | 0 | 0 | 0 | 1 |
| Cerebrospinal meningitis | 42 | 31 | 101 | 31 |
| Chancroid | 22 | 0 | 18 | 2 |
| Chicken pox | 8,618 | 2 | 9,819 | 2 |
| Conjunctivitis | 21 | 0 | 15 | 2 |
| Diphtheria | 2,918 | 148 | 3,261 | 185 |
| Dysentery | 5 | 15 | 18 | 18 |
| Erysipelas | 0 | 0 | 5 | 1 |
| German measles | 242 | 0 | 308 | 0 |
| Goiter | 13 | 7 | 10 | 3 |
| Gonorrhœa | 2,062 | 0 | 2,327 | 0 |
| Influenza | 4,730 | 255 | 8,382 | 514 |
| Lethargic encephalitis | 24 | 18 | 18 | 10 |
| Malaria | 0 | 0 | 1 | 0 |
| Measles | 16,188 | 14 | 20,799 | 39 |
| Mumps | 19,802 | 3 | 4,003 | 0 |
| Oedema, malignant | 2 | 2 | 0 | 0 |
| Paratyphoid fever | 0 | 0 | 12 | 1 |
| Pneumonia | | | 1,716 | 2,133 |
| Poliomyelitis | 85 | 7 | 477 | 26 |
| Puerperal septicemia | | | 8 | 13 |
| Rabies | 1 | 1 | 0 | 0 |
| Scarlet fever | 4,508 | 35 | 4,857 | 31 |
| Septic sore throat | 109 | 4 | 73 | 2 |
| Smallpox | 864 | 1 | 708 | 0 |
| Syphilis | 1,477 | 6 | 2,630 | 6 |
| Tetanus | 2 | 3 | 3 | 4 |
| Trachoma | 1 | 0 | 0 | 0 |
| Trichinosis | 0 | 0 | 1 | 1 |
| Tuberculosis | 1,551 | 708 | 1,407 | 563 |
| Typhoid fever | 715 | 44 | 738 | 33 |
| Undulant fever | 14 | 0 | 2 | 0 |
| Whooping cough | 4,150 | 48 | 4,897 | 31 |

DENMARK

Communicable diseases—November, 1929.— During the month of November, 1929, cases of certain communicable diseases were reported in Denmark, as follows:

| Disease | Cases | Disease | Cases |
|--------------------------|-------|-----------------------------|-------|
| Broncho-pneumonia | 1,606 | Paratyphoid fever | 0 |
| Cerebrospinal meningitis | 2 | Pneumonia | 280 |
| Chicken pox | 50 | Poliomyelitis | 18 |
| Diphtheria and croup | 604 | Puerperal fever | 20 |
| Erysipelas | 296 | Scabies | 1,048 |
| German measles | 2 | Scarlet fever | 292 |
| Influenza | 4,375 | Tuberculosis | 202 |
| Jaundice | 131 | Typhoid fever | 14 |
| Lethargic encephalitis | 10 | Undulant fever ¹ | 40 |
| Measles | 458 | Whooping cough | 780 |
| Mumps | 1,289 | | |

¹ Reported from the State Serum Institute.

JAMAICA

Communicable diseases—Four weeks ended February 1, 1930.— During the four weeks ended February 1, 1930, cases of certain communicable diseases were reported in Kingston, Jamaica, and in the Island of Jamaica outside of Kingston, as follows:

| Disease | Kingston | Other localities | Disease | Kingston | Other localities |
|-------------------------------|----------|------------------|----------------------|----------|------------------|
| Cerebrospinal meningitis..... | 1 | | Puerperal fever..... | | 1 |
| Chicken pox..... | 9 | 8 | Tuberculosis..... | 28 | 60 |
| Dysentery..... | 2 | 6 | Typhoid fever..... | 12 | 69 |
| Leprosy..... | | 1 | | | |

MEXICO

Tampico—Communicable diseases—January, 1930.— During the month of January, 1930, cases of certain communicable diseases, with deaths, were reported at Tampico, Mexico, as follows:

| Disease | Cases | Deaths | Disease | Cases | Deaths |
|--------------------------|-------|--------|---------------------|-------|--------|
| Chicken pox..... | 8 | | Smallpox..... | 1 | |
| Enteritis (various)..... | | 29 | Tuberculosis..... | 79 | 31 |
| Influenza..... | 47 | | Typhoid fever..... | 5 | |
| Malaria..... | 95 | 27 | Whooping cough..... | 20 | 4 |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

CHOLERA

[C indicates cases; D, deaths; P, present]

| Place | Week ended— | | | | | | | | | |
|------------------|-----------------------|--------|--------|------------------------|--------|-------|-----------------------|-------|-------|----------------|
| | July 28-Aug. 25, 1929 | | | Sept. 25-Oct. 19, 1929 | | | Oct. 20-Nov. 10, 1929 | | | November, 1929 |
| | | | | | | | | | | |
| China: | | | | | | | | | | |
| Amoy | C | 1 | | | | | | | | |
| Canton | C | 5 | 1 | | | | 1 | 1 | | |
| Henan | D | 3 | 1 | | | | 4 | 2 | | |
| Manchuria— | C | | | | | | | | | |
| Kwantung—Dairen | C | 1 | | | | | | | | |
| Newchwang | C | | 1 | | | | | | | |
| Nanking | C | | P | | | | | | | |
| Shanghai | C | 1,306 | 984 | 35 | | | | | | |
| Swatow | D | 12 | 37 | 22 | 12 | 1 | 1 | | | |
| Tientsin | C | | P | | | | | | | |
| Chosen: Chemulpo | C | 41,000 | 26,896 | 16,354 | 17,340 | 4,326 | 5,207 | 4,987 | 5,652 | 4,010 |
| India | D | 24,003 | 16,067 | 10,051 | 10,680 | 2,438 | 3,158 | 2,491 | 2,706 | 2,602 |
| Bassein | D | 6 | | | | | | | | |
| Bombay | C | 2 | | 1 | | | | | | |
| Calcutta | C | 170 | 135 | 160 | 232 | 85 | 15 | 60 | 40 | 38 |
| Karachi | D | 106 | 59 | 70 | 129 | 45 | 29 | 40 | 28 | 27 |
| Madras | D | 10 | 11 | | | 3 | | 1 | 1 | 9 |
| Nepatam- | D | | | | | | | | | |
| Rangoon | C | 1 | | | | 2 | 1 | | | 1 |
| Tuitoorn | D | 1 | | | | 1 | 2 | 1 | 2 | 1 |
| | D | 11 | 8 | 4 | 5 | 7 | 1 | 1 | 6 | 1 |

| | Place | July, 1929 | | | August, 1929 | | | September, 1929 | | | October, 1929 | | | November, 1929 | | | December, 1929 | | | January, 1930 | | |
|--|-------|------------|-------|-------|--------------|-------|-------|-----------------|-------|-------|---------------|-------|-------|----------------|-------|-------|----------------|-------|-------|---------------|--|--|
| | | 1-10 | 11-20 | 21-30 | 1-10 | 11-20 | 21-30 | 1-10 | 11-20 | 21-30 | 1-10 | 11-20 | 21-30 | 1-10 | 11-20 | 21-31 | 1-10 | 11-20 | 21-31 | | | |
| Indis (French): | | | | | | | | | | | | | | | | | | | | | | |
| Chandernagor | C | 1 | 1 | 1 | 5 | 2 | 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Karikal | C | 1 | 1 | 3 | 5 | 4 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Pondicherry Province | C | | | | | | | | | | | | | | | | | | | | | |
| India (Portuguese): | D | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Indo-China (see also table below): | D | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Phnompenh | D | 3 | 3 | 61 | 43 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Saigon and Cholon | D | 2 | 2 | 2 | 53 | 37 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Japan: | C | | | | | | | | | | | | | | | | | | | | | |
| Kobe | C | 2 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Osaka | C | 5 | 41 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | | |
| Shimoneeki | C | P | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Siam: | C | 180 | 26 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | |
| Anthong | D | 112 | 19 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| D | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | |
| Ayudhaya | C | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Bangkok | C | 2 | 9 | 10 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Dhamsapuri | D | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Lobpuri | C | | | | | | | | | | | | | | | | | | | | | |
| Nagar Rajima | D | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Sridharmara Province | D | 5 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| On vessel: | | | | | | | | | | | | | | | | | | | | | | |
| S. S. Shinsen, at Shanghai | D | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | | | |
| S. S. Texas Maru, at Nagasaki, from Shanghai | D | 13 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| C | | | | | | | | | | | | | | | | | | | | | | |

Indo-China (French) (see also table above):

| | | | | |
|--------------|---|-----|----|----|
| Annam | C | 9 | 17 | 1 |
| Cambodia | C | 186 | 35 | 38 |
| Cochin-China | C | 315 | 60 | 43 |
| Laos | C | 313 | 3 | 15 |

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE

[C indicates cases; D, deaths; P, present]

W

| Place | Week ended— | | | | | | | | | | | | | | | | | | | |
|---|--|-----|-----|-------------------------------|-----|-----|------------------------------|----|----|------------------------------|----|--|-------------------|--|--|---------------|--|--|-------------------|--|
| | July 28- Aug. 25- Aug. 24, 1929 | | | Sept. 22- Oct. 19, 1929 | | | Oct. 26- Nov. 16, 1929 | | | Nov. 17- Dec. 14, 1929 | | | December, 1929 | | | January, 1930 | | | February, 1930 | |
| Algeria: | | | | | | | | | | | | | | | | | | | | |
| Algers... | C | 2 | | | | | | | | | | | | | | | | | | |
| Philippeville | C | 3 | | | | | | | | | | | | | | | | | | |
| Argentina: | C | | | | | | 2 | | | | | | | | | | | | | |
| Rosario... | C | | | | | | 3 | | | | | | | | | | | | | |
| Plague-infected rats | | | | | | | 1 | | | | | | | | | | | | | |
| Santa Fe: | C | | | | | | 1 | | | | | | | | | | | | | |
| Tucuman: | C | | | | | | 1 | | | | | | | | | | | | | |
| Porto: Ponta Delgada | C | 2 | | | | | 2 | | | | | | | | | | | | | |
| Atores: Ponta: Djigu... | D | 1 | | | | | | 2 | | | | | | | | | | | | |
| British East Africa (see also table below): Uganda... | C | 840 | 528 | 405 | 336 | 281 | 42 | 33 | 33 | 32 | 32 | | | | | | | | | |
| Colombia: | D | 730 | 556 | 343 | 310 | 262 | 40 | 26 | 32 | 32 | 32 | | | | | | | | | |
| Plague-infected rats | | | | | | | | | | | | | | | | | | | | |
| Galle... | C | 1 | 3 | 1 | 4 | 5 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| Kandy... | D | 6 | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| Chile: Antofagasta... | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| China: | C | | | | | | | | | | | | | | | | | | | |
| Amoy... | C | P | P | | | | | | | | | | | | | | | | | |
| Foochow | C | | | | | | | | | | | | | | | | | | | |
| Hong Kong... | D | 1 | 1 | | | | | | | | | | | | | | | | | |
| Plague-infected rats | | | | | | | | | | | | | | | | | | | | |
| Manchuria—Tungkuo District | C | 3 | 2 | | | | | | | | | | | | | | | | | |
| Dutch East Indies: | | | | | | | | | | | | | | | | | | | | |
| Batavia and West Java... | C | 122 | 180 | 121 | 266 | 340 | 65 | 61 | 61 | 61 | 61 | | | | | | | | | |
| Plague-infected rats | D | 121 | 178 | 128 | 262 | 336 | 61 | 61 | 61 | 61 | 61 | | | | | | | | | |

| | | | | | | | | | | |
|--|---|-------|-------|-------|-------|-------|-------|-----|----|----|
| Celebes—Makassar | C | 3 | 7 | 60 | 41 | 29 | 1 | 2 | 2 | 1 |
| Plague-infected rodents | D | 3 | 7 | 60 | 43 | 29 | 1 | | | |
| East Java and Madura | D | 377 | 246 | 275 | 475 | 537 | 131 | 117 | | |
| Java and Madura | D | 3 | 7 | 4 | 4 | 4 | | | | |
| Surabaya | D | 3 | 7 | 2 | | | | | | |
| Ecuador (see table below). | | | | | | | | | | |
| Egypt: | | | | | | | | | | |
| Alexandria | C | 6 | 11 | 13 | 11 | 6 | 2 | | | |
| Astout | C | 1 | 5 | 3 | 4 | 3 | 2 | | | |
| Assuan | D | 1 | 1 | 1 | 1 | 1 | 4 | | | |
| Beheria | C | 1 | 1 | 1 | 1 | 1 | 2 | | | |
| Beni Suef | C | 1 | 1 | 2 | 2 | 1 | | | | |
| Dakahliah | D | 1 | 2 | 2 | 2 | 1 | 1 | | | |
| Gharbeh | C | 1 | 1 | 5 | 6 | 3 | | 2 | | |
| Minieh | D | 1 | 1 | 4 | 4 | 2 | | 1 | | |
| Port Said | C | 6 | 6 | 2 | 2 | 1 | | | | |
| Port Said | D | 6 | 3 | 1 | 1 | 1 | | | | |
| France: Paris | C | 3 | 3 | 3 | 2 | 2 | | | | |
| Greece (see also table below): | | | | | | | | | | |
| Messenia | C | 3 | 3 | 3 | 2 | 2 | | | | |
| Patras | C | 3 | 3 | 3 | 2 | 2 | | | | |
| Piraeus | C | 3 | 3 | 3 | 2 | 2 | | | | |
| Pyrgos | C | 3 | 3 | 3 | 2 | 2 | | | | |
| Hawaii: Hamakua—Kirkukine—Plague-infected rats | D | 4,221 | 6,325 | 8,334 | 6,265 | 6,016 | 1,056 | | | |
| India | D | 2,266 | 3,354 | 4,393 | 4,374 | 3,457 | 625 | | | |
| Bassein | C | 13 | 4 | 4 | 4 | 4 | | | | |
| Bombay | D | 1 | 2 | 1 | 1 | 1 | | | | |
| Plague-infected rats | D | 10 | 28 | 32 | 31 | 36 | 3 | 8 | 9 | 7 |
| Madras Presidency | D | 215 | 180 | 139 | 152 | 236 | 182 | 171 | 14 | 19 |
| Rangoon | D | 112 | 107 | 64 | 180 | 108 | 65 | 101 | 6 | 12 |
| Plague-infected rats | D | 15 | 11 | 6 | 2 | 1 | 1 | 1 | 2 | 4 |
| Indo-China (see also table below): | | | | | | | | | | |
| Phnom Penh | D | 10 | 15 | 6 | 6 | 6 | 2 | 1 | 1 | 1 |
| Saigon and Cholon | D | 8 | 4 | 1 | 1 | 2 | 5 | | | |
| D | 4 | 4 | 1 | 2 | 2 | | | | | |

¹ 21 cases of plague with 8 deaths were reported Jan. 29, 1930, in the State of Sao Paulo, Brazil. 15 of these cases were in the city of Sao Paulo.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PI AGUE—Continued

[C indicates cases; D, deaths; P, present]

Union of Socialist Soviet Republics:

| | | | | | | |
|---|---|---|----|----|---|--|
| Caucasia..... | D | 2 | | | | |
| Kazaks..... | D | 1 | | | | |
| Ural-Kirghiz..... | C | | 1 | | | |
| Union of South Africa: | | | | | | |
| Cape Province..... | C | | 17 | 13 | 4 | |
| Orange Free State..... | D | | 13 | 5 | 1 | |
| On vessel: S. S. Chabon, at Port Said, from Jaffa..... | D | 1 | 7 | 6 | 1 | |
| Steamship at Porto Novo, from Lagos..... | C | | 4 | 3 | | |
| At Rio do Janeiro, Brazil, from Argentina..... | D | 1 | | 1 | | |
| | C | | | 1 | | |
| | D | | | 1 | | |

90296°—30—3

On vessel:

S. S. Chabon, at Port Said, from Jaffa.

Steamship at Porto Novo, from Lagos.

At Rio do Janeiro, Brazil, from Argentina.

| Place | Place | Place | Place | Place | Place | Place |
|---|------------------|-------------------|------------------|------------------|-----------------|------------------|
| | Au-gus-tus, 1929 | Se-ptem-ber, 1929 | No-vem-ber, 1929 | De-cem-ber, 1929 | Ja-nu-ary, 1930 | De-cem-ber, 1929 |
| British East Africa (see also table above): | | | | | | |
| Kenya..... | C | 19 | 28 | 146 | 157 | 15 |
| Uganda..... | C | 806 | | 179 | 165 | |
| Ecuador: Guayaquil..... | D | 749 | | 164 | 194 | |
| Plague-infected rats: | | | | | | |
| Greece (see also table above)..... | C | 2 | 5 | 2 | 1 | |
| Indo-China (see also table above)..... | D | 1 | 2 | 2 | 1 | |
| Madagascar (see also table above)..... | C | 9 | 2 | 42 | 42 | |
| Ambositra Province..... | D | 46 | 182 | 103 | 182 | |
| Antsirabe Province..... | C | 9 | 9 | 2 | 10 | 4 |
| Ietary Province..... | D | 1 | 13 | 17 | 5 | |
| Majunga Province..... | C | 1 | 13 | 17 | 5 | |
| Miarinarivo..... | D | 2 | 5 | 10 | 10 | |
| | D | 11 | 11 | 5 | 5 | |
| | D | 11 | 11 | 5 | 5 | |

Madagascar (see also table above)—Continued:
Moramanga Province.....

Tamatave Province.....

Tananarive Province.....

Peru.....

Senegal:
Biu 1.....

Dakar 1.....

Louga 1.....

Rufisque 1.....

Thies 1.....

Tivesouane 1.....

D

C

D

C

D

1 Incomplete reports.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

KODAK

[C] [adjective] cases: D, deaths; P, present)

| Place | Week ended— | | | | | | | | February, 1930 | |
|---|------------------------------|----|-------------------------------|----|-----------------------|----|------------------------------|----|-------------------|--|
| | July 28- Aug. 24, 1929 | | Sept. 20- Oct. 19, 1929 | | Oct. 16- Nov. 1929 | | Nov. 17- Dec. 14, 1929 | | January, 1930 | |
| Algeria: | | | | | | | | | | |
| Algers— | C | 1 | C | 1 | C | 2 | C | 3 | | |
| Oran— | C | 5 | C | 3 | C | 2 | C | 4 | | |
| Arabia: Aden: | D | 38 | D | 4 | D | 2 | D | 1 | | |
| Bolivia: La Paz (see table below). | D | 37 | D | 1 | D | — | D | — | | |
| Brazil: | | | | | | | | | | |
| Porto Alegre— | C | 3 | C | 2 | C | 5 | C | 4 | | |
| Rio de Janeiro— | C | 5 | C | 9 | C | 41 | C | 60 | | |
| British East Africa (see also table below): | D | 1 | D | 4 | D | 10 | D | 20 | | |
| Tanganyika— | C | 3 | C | 5 | C | 6 | C | 53 | | |
| British South Africa: | D | 3 | D | 5 | D | 6 | D | 22 | | |
| Northern Rhodesia— | C | 4 | C | 1 | C | 12 | C | 5 | | |
| Southern Rhodesia— | D | 2 | D | 3 | D | 12 | D | 2 | | |
| Canada: | | | | | | | | | | |
| Alberta— | C | 4 | C | 1 | C | 12 | C | 2 | | |
| Calgary— | C | 2 | C | 1 | C | 1 | C | 7 | | |
| Edmonton— | C | 1 | C | 3 | C | 11 | C | 2 | | |
| British Columbia—Vancouver | C | 8 | C | 5 | C | 9 | C | 6 | | |
| Manitoba— | C | 6 | C | 15 | C | 2 | C | 3 | | |
| New Brunswick— | C | 5 | C | 15 | C | 2 | C | 3 | | |
| Ontario— | C | 7 | C | 19 | C | 17 | C | 63 | | |
| London— | C | 2 | C | 1 | C | 4 | C | 28 | | |
| Niagara Falls— | C | 3 | C | 7 | C | 1 | C | 5 | | |
| North Bay— | C | 1 | C | 3 | C | 1 | C | 2 | | |
| Ottawa— | C | 1 | C | 7 | C | 1 | C | 4 | | |
| Toronto— | C | 3 | C | 1 | C | 4 | C | 3 | | |
| Prince Edward Island— | C | 2 | C | 1 | C | 2 | C | 1 | | |

| | C | 3 | 1 | 7 | 22 | 16 | 1 | 2 | 4 | 1 | 1 | 6 |
|---------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Quebec— | C | 1 | 4 | 11 | 40 | 18 | 10 | 12 | 21 | 12 | 33 | 19 |
| Montreal— | C | 1 | 4 | 13 | 13 | 9 | 9 | 13 | 9 | 1 | 1 | 1 |
| Quebec— | C | 1 | 13 | 13 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Saskatchewan— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Regina— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Saskatoon— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ceylon—Colombo— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| China: | | | | | | | | | | | | |
| Castor— | C | 2 | 2 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Chungking— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Foochow— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hong Kong— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Manchuria— | | | | | | | | | | | | |
| Harbin— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Kwangtung—Dairen— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nanking— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Shanghai— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Foreigners only— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Including natives— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Swatow— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Tientsin— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Chosen (see table below). | | | | | | | | | | | | |
| Colombia: | | | | | | | | | | | | |
| Barranquilla— | | | | | | | | | | | | |
| Buenaventura— | | | | | | | | | | | | |
| Dutch East Indies: | | | | | | | | | | | | |
| Belawan—Deli— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Borneo—Samarinda— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Celebes—Makassar— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Java— | | | | | | | | | | | | |
| Batavia and West Java— | C | 10 | 35 | 31 | 11 | 37 | 5 | 2 | 2 | 2 | 2 | 2 |
| East Java and Madura— | C | 5 | 7 | 6 | 7 | 8 | 3 | 2 | 2 | 2 | 2 | 2 |
| Sanggi Islands— | C | 3 | 7 | 6 | 13 | 13 | 17 | 17 | 17 | 17 | 17 | 17 |
| Sumatra—Medan— | C | 1 | 1 | 1 | 10 | 10 | 6 | 3 | 3 | 3 | 3 | 3 |
| Egypt: | | | | | | | | | | | | |
| Alexandria— | C | 3 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Suez— | C | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Great Britain: | | | | | | | | | | | | |
| England and Wales— | C | 502 | 496 | 490 | 643 | 904 | 195 | 232 | 248 | 335 | 414 | 313 |
| Ashton under Lyne— | C | 3 | 2 | 2 | 1 | 6 | 3 | 2 | 2 | 2 | 2 | 1 |
| Bradford— | C | 1 | 8 | 6 | 13 | 20 | 4 | 2 | 1 | 1 | 1 | 1 |
| Cardiff— | C | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Leeds— | C | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| London— | C | 78 | 144 | 156 | 174 | 321 | 90 | 83 | 129 | 160 | 158 | 127 |

SCHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

REPORT—Continued

[C indicates cases; D, deaths; P, present]

111

India (French):
Khartoum

| | | | | | | |
|--|---|-----|-----|-----|-----|---|
| India (French): Khartoum | B | 12 | 14 | 2 | 4 | 1 |
| Pondicherry Province | C | 12 | 8 | 5 | 19 | 7 |
| India (Portuguese): Indo-China (see also table below) | D | 7 | 8 | 1 | 16 | 7 |
| Phnompenh | C | 3 | 1 | 1 | 2 | 1 |
| Saigon and Cholon | D | 3 | 1 | 2 | 3 | 1 |
| Iraq: Baghdad | C | 13 | 4 | 63 | 2 | 1 |
| Borsa | D | 12 | 21 | 16 | 90 | 2 |
| Diyah Liwa | C | 81 | 68 | 24 | 162 | 4 |
| Kirkuk Liwa | D | 13 | 17 | 6 | 90 | 5 |
| Mosoul | C | 81 | 21 | 16 | 90 | 3 |
| Ivory Coast (see table below). Mexico (see also table below). Acapulco | D | 13 | 17 | 6 | 17 | 3 |
| Acuascalientes | C | 4 | 1 | 1 | 27 | 1 |
| Coahuila | D | 7 | 6 | 8 | 1 | 1 |
| Jalisco (State): Guadalajara | D | 5 | 8 | 4 | 1 | 1 |
| Juarez | C | 3 | P | 10 | 6 | 1 |
| Mexico City and surrounding territory | D | 21 | 7 | 8 | 9 | 2 |
| Morelos State. ¹ | D | 6 | 1 | 8 | 4 | 1 |
| Morocco (see table below). Netherlands: Rotterdam | C | 141 | 110 | 39 | 18 | 6 |
| Nigeria: LAGOS | D | 1 | 7 | 5 | 1 | 1 |
| Panama | C | 6 | 95 | 154 | 11 | 1 |
| Persia (see table below). | C | 2 | 1 | 1 | 1 | 1 |
| Philippine Islands: Samugani and Balut Islands. ² | D | 1 | 17 | 2 | 3 | 1 |
| Portugal: Lisbon | C | 1 | 1 | 2 | 1 | 1 |
| Porto | D | 1 | 1 | 2 | 1 | 1 |
| Rumania | C | 32 | 23 | 33 | 7 | 3 |
| Siam | D | 7 | 5 | 2 | 1 | 1 |
| Somaliland, British: Beicles | C | 4 | 3 | 26 | 24 | 1 |
| Somaliland, French: Jibuti | D | 31 | 10 | 4 | 16 | 9 |
| | D | 21 | 11 | — | — | — |

¹ Newspaper reports of Feb. 4, 1930, show an epidemic of smallpox in Ioniocape, Morelos State, and vicinity, giving 600 deaths in last two weeks.

² On Feb. 1, 1930, 317 cases of smallpox with 102 deaths were reported to date in the Samugani and Balut Islands.

PLAQUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

| Place | Week ended— | | | | | | | Week ended— | | | | | | |
|--|--|-------|-------|------------------------------------|-------|-------|------------------------------|----------------|-------|---------------|------|-------|-------------------|---------------|
| | July 28- Aug. 25- Aug. 24, 1929 | | | Sept. 22- Oct. 19- Oct. 1929 | | | Nov. 17- Dec. 14, 1929 | | | January, 1929 | | | February, 1929 | |
| Straits Settlements | | | | | | | | | | | | | | |
| S. S. Sudan (Anglo-Egyptian) | C | 256 | 250 | 91 | 254 | 52 | 30 | 3 | 206 | 14 | 1 | 1 | 1 | 1 |
| S. S. Sudan (French) (see table below) | D | 93 | 16 | 12 | 45 | 14 | 9 | — | 42 | 1 | 8 | 21 | 171 | 5 |
| S. S. Syria (see table below) | C | — | — | — | — | — | — | — | — | — | — | 20 | 20 | 6 |
| S. S. Tunisia: Tunis | C | — | — | — | 6 | 23 | 47 | — | 14 | 3 | 3 | 1 | 4 | — |
| S. S. Turkey (see table below) | C | P | P | P | P | P | P | P | P | P | P | P | P | — |
| Union of South Africa: | C | P | P | P | P | P | P | P | P | P | P | P | P | — |
| Cape Province | C | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Natal | C | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Transvaal | C | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Upper Volta | C | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — |
| On S. S. Kurosh, at Zanzibar | C | — | — | — | — | — | — | — | — | — | — | — | — | — |
| S. S. Taiping, at Manila, from Australia | C | — | — | — | — | — | — | — | — | — | — | — | — | — |
| S. S. Umvuma, at Cape Town, from London | C | — | — | 5 | — | — | — | — | — | — | — | — | — | — |
| Belgian Congo | | | | | | | | | | | | | | |
| Dahomey | C | 725 | 42 | — | — | — | — | — | — | — | — | — | — | — |
| Dahomey—Dahomey (see also table above) | D | 19 | 4 | — | — | — | — | — | — | — | — | — | — | — |
| Dahomey—Dahomey (French) | C | 64 | 128 | — | — | — | — | — | — | — | — | — | — | — |
| Dahomey—Ivory Coast | C | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| Dahomey—Sudan (French) | C | 37 | 2 | — | — | — | — | — | — | — | — | — | — | — |
| Dahomey—Sudan (French) | D | 37 | 1 | — | — | — | — | — | — | — | — | — | — | — |
| Syria: Beirut | C | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Syria: Beirut | D | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Place | August, 1929 | | | | | | | November, 1929 | | | | | | |
| | 1-10 | 11-20 | 21-30 | 1-10 | 11-20 | 21-31 | 1-10 | 1-10 | 11-20 | 21-31 | 1-10 | 11-20 | 21-31 | January, 1929 |

| Place | Aug. 1929 | Sep. 1929 | Oct. 1929 | Nov. 1929 | De- cem- ber, 1929 | Jan- uary, 1930 | Place | Aug. 1929 | Sep. 1929 | Oct. 1929 | Nov. 1929 | De- cem- ber, 1929 | Jan- uary, 1930 | |
|---|--------------|--------------|--------------|--------------|-----------------------------|-----------------------|-------|--------------|--------------|--------------|--------------|-----------------------------|-----------------------|--|
| Bolivia: La Paz | C | | | | | | | | | | | | | |
| British East Africa (see also table above): | | | | | | | | | | | | | | |
| Kenya: | C | 60 | 66 | 278 | 2 | | | | | | | | | |
| Chiosen: | C | 1 | | | | | | | | | | | | |
| Mexico: Durango (see also table above)..... | D | 1 | 2 | 2 | 2 | 4 | 12 | | | | | | | |

TYPHUS FEVER

| Place | July 28- Aug. 24, 1929 | Aug. 25- Sept. 21, 1929 | Sept. 22- Oct. 19, 1929 | Oct. 20- Nov. 16, 1929 | Nov. 23- Dec. 30, 1929 | Dec. 20- Jan. 16, 1930 | Week ended— | | | | | | |
|---|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| | | | | | | | Feb. 1, 1930 | Feb. 1, 1930 | Feb. 1, 1930 | Feb. 1, 1930 | Feb. 1, 1930 | Feb. 1, 1930 | |
| Algeria: | | | | | | | | | | | | | |
| Algeria: Constantine Department | C | 4 | 10 | 2 | 1 | 1 | | | | | | | |
| Oran: | C | 2 | 3 | | | | | | | | | | |
| Bolivia: | | | | | | | | | | | | | |
| Bolivia: La Paz | C | | | | | | | | | | | | |
| Bolivia: Potosí Province—Calaoto Canton | D | 5 | | | | | | | | | | | |
| Brazil: São Paulo: | C | | | | | | | | | | | | |
| Bulgaria: | C | | | | | | | | | | | | |
| Bulgaria: Sofia | D | | | | | | | | | | | | |
| Chile: Valparaíso | O | | | | | | | | | | | | |
| China: Tientsin | C | | | | | | | | | | | | |
| China: Tientsin (see table below) | D | | | | | | | | | | | | |
| Czechoslovakia (see table below) | C | 1 | | | | | | | | | | | |

¹ Press reports show that 10 deaths from typhus fever have occurred in São Paulo, Brazil, from Nov. 3 to 30, 1929.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

TYPHUS FEVER—[Continued]

[C indicates cases; D denotes P *present*]

Union of South Africa:
 Cape Province.....C
 Natal.....C
 Orange Free State.....C
 Transvaal.....C
 Yugoslavia (see table below).

| Place | July, 1929 | August, 1929 | September, 1929 | October, 1929 | November, 1929 | December, 1929 | Place | | July, 1929 | August, 1929 | September, 1929 | October, 1929 | November, 1929 | December, 1929 | |
|----------------------|------------|--------------|-----------------|---------------|----------------|----------------|-------|---|------------|--------------|-----------------|---------------|----------------|----------------|--|
| | | | | | | | P | P | | | | | | | |
| Chosen: Seoul.....C | | | 1 | P | P | P | | | | | | | | | |
| Czechoslovakia.....C | | | P | P | P | P | | | | | | | | | |
| France.....C | | | P | P | P | P | | | | | | | | | |
| Greece: Athens.....C | | | 6 | P | P | P | | | | | | | | | |
| Lithuania.....C | 10 | 1 | 1 | 3 | 3 | 6 | | 4 | | | | | | | |
| | D | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |

YELLOW FEVER

Since August 1, 1929, the following cases of yellow fever have been reported: Nictheroy, Brazil, 1 case; Rio de Janeiro, Brazil, 2 cases; Monrovia, Liberia, 1 case. All occurred during the month of September, 1929.

X